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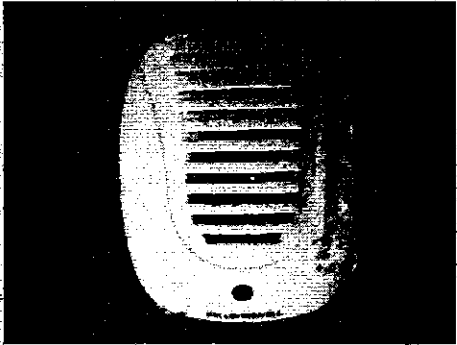
**SGS****Affiliate Code : F615001****Report N° : 16052501EB**

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**TESTING WITNESS REPORT**

Report No.: AFL20160214GZ-2

To	INTELLITEC INTERNATIONAL INC.	Date:	MAY 25, 2016
Att	DEBBIE FEUERSTEIN		
From	SGS-CSTC Standards Technical Services Co., Ltd.		

SGS File No.	AFL20160214GZ-2	Testing Device	Overlook
Declared Buyer	VAN HAUSER 230, FIFTH AVENUE, NEW YORK, NY 10001, USA		
Declared Supplier	INTELLITEC INTERNATIONAL INC.		
Declared Manufacturer	INTELLITEC INTERNATIONAL INC.		
Declared Style Number	ULTRASONIC PEST REPELLER		
Declared Product description	BELL + HOWELL ULTRASONIC PEST REPELLER		
Service Style	TESTING WITNESS		
Service Date	April 07, 2016-April 18, 2016		
Testing Location	DONGGUAN, CHINA		

**Testing Criteria**

Testing sample provided by	By Supplier(See protocol)
Client instruction/specification	Yes(See protocol)
SGS WI number	N/A
Other	

**Comments / Remarks: (Reason)**

-Found some ants / spiders / roaches dead during testing, then added new ants / spiders / roaches.  
-Four edges of all chambers were closed securely up by SGS inspector with special seals. The seal is unbreakable and chopped with SGS company stamp. Each day after counting mice/rat quantities and weighting water, additional SGS inspector replaced with new seals.

**STUDY TITLE**

**EFFICACY EVALUATION OF BELL + HOWELL ULTRASONIC PEST REPELLER  
AGAINST**

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**ANTS / SPIDERS / ROACHES  
OBJECT**

TESTING ULTRASONIC PEST REPELLER AGAINST ANTS / SPIDERS / ROACHES IN LABORATORY ENVIRONMENT. CONDUCTING OBSERVATIONS IN TOTAL 11 DAYS PERIOD, INCLUDING 2 DAYS PRELIMINARY TEST, 7 DAYS DURING TEST AND 2 DAYS POST TEST. THIS IS TO MEASURE THE EFFICACY OF HIGH-FREQUENCY SOUND AS A PEST MANAGEMENT TOOL. BOTH FREQUENCY AND SOUND PRESSURE (dB) ARE IMPORTANT PARAMETERS.

**MATERIALS**

FORMULATIONS	BELL + HOWELL ULTRASONIC PEST REPELLER
TEST ARTHROPODS	HEALTHY ANTS, SPIDERS & ROACHES
APPLICATION DEVICES	BELL + HOWELL ULTRASONIC PEST REPELLER
TESTING CHAMBER	SEE BELOW DIAGRAM

**METHODS****Summary**

8.5 feet long plastic tunnel is made to connect two chambers on each side. Each chamber is 4 feet (L) x 4 feet (W) x 1.5 feet (H). Ultrasonic Pest Repeller is placed at Chamber A. Chamber B has no ultrasonic pest repeller. Both sides have equal amount of food and water. Ants, Spiders and Roaches will be recorded at 24 hour intervals for total 11 days (or 264 hours). The number of ants / spiders / roaches will be recorded in each chamber. Any ants / spiders / roaches are found in Chamber B (no ultrasonic pest repeller) will be counted as repelled. Any ants / spiders / roaches remain in Chamber A (with ultrasonic pest repeller) will be counted as not repelled.

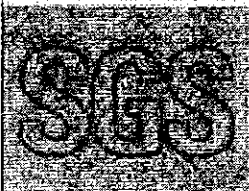
To determine the efficacy of the Bell + Howell Ultrasonic Pest Repeller for repelling ants, spiders and roaches. This device is tested over a 24 hours interval and total 11 days (or 264 hours) period in a laboratory environment. The test was preceded by a two-day preliminary test to ensure that the test apparatus and the selected food functioned properly.

**Test sample**

The test sample will be stored in a locked cabinet at ambient temperature and humidity until use in the study.

**Preparation and Handling of ANTS, SPIDERS & ROACHES**

The test will be conducted in two plastic chambers; each chamber is 4 feet (L) x 4 feet (W) x 1.5 feet (H). In between, there is a 2 feet long plastic tunnel to connect two chambers on each side; the ants, spiders and roaches will each be given 11 days (264 hours) to move freely around Chamber A and Chamber B and inside the tunnel.



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### ***Food and Water Consumption***

Data related to food and water consumption will be recorded in each chamber on a 24-hour interval throughout a 11-day period. The data will be used to identify changes in the eating behavior of ants, spiders and roaches due to the impact of the WEB Pest Repeller W/Sweeping Frequency.

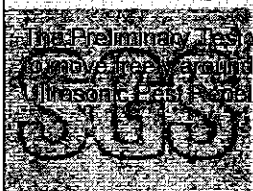
### ***Fecal pellet counts & Urine spots***

Record and trace fecal pellets of roaches on a 24 hours interval and 11 days (264 hours) period in each chamber. There is no fecal pellet for spiders, but we can trace urine spots on a 24 hours interval and 11 days (264 hours) period in each chamber. Neither fecal pellet nor urine spots for ants. This data will aid in understanding additional behavioral changes resulting from the Ultrasonic Pest Repeller.

### ***Preliminary Testing***

Ants / Spiders / Roaches activity will be documented before and after device installation. To observe general activity, a Preliminary Test will be conducted before the actual test to ensure the test apparatus and the selected food functioned properly. The Ultrasonic Pest Repeller will be turned "off" during preliminary testing. The release of Ants, Spiders and Roaches in Chamber A and Chamber B will be proportionate, with 50% of Ants, Spiders and Roaches distributed evenly in each chamber.

The Preliminary Test will consist of 20 ants, 20 spiders and 20 roaches. The pests will be each allotted 2 days (48 hours) to move freely around chamber A, Chamber B and inside the 8.5 feet long tunnel prior to the introduction of the Ultrasonic Pest Repeller.



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Release 50% of Ants / Spiders / Roaches in Chamber A, and another 50% of mice in Chamber B. Turn On Ultrasonic Pest Repeller. Ants / Spiders / Roaches will be recorded at 24 hour intervals for 10 days (or 240 hours). Any Ants / Spiders / Roaches that stay in the Chamber B (without ultrasonic pest repeller) will be counted as repelled. Any Ants / Spiders / Roaches stay inside Chamber A (with ultrasonic pest repeller) will be counted as not repelled.

#### **Observation of Repellency (During Testing)**

Release 50% of Ants / Spiders / Roaches in Chamber A, and another 50% of mice in Chamber B. Turn On Ultrasonic Pest Repeller. Rats and mice will be recorded at 24 hour intervals for 7 days (or 168 hours). Any ants, spiders and roaches that stay in the Chamber B (without ultrasonic pest repeller) will be counted as repelled. Any ants, spiders and roaches stay inside Chamber A (with ultrasonic pest repeller) will be counted as not repelled.

The actual control and non-control test will consist of 20 ants, 20 spiders and 20 roaches. The Ants / Spiders / Roaches will each be given 7 days (168 hours) to move freely around Chamber A and Chamber B and inside the 8.5 feet long tunnel when the Ultrasonic Pest Repeller is ON.

The actual control and non-control test will consist of 20 ants, 20 spiders and 20 roaches. The Ants / Spiders / Roaches will each be given 11 days (264 hours) to move freely around Chamber A and Chamber B and inside the tunnel.

#### **Post Testing**

To observe general activity, a post test will be conducted to ensure the test apparatus and the selected food functioned properly. Ultrasonic Pest Repeller will be turned OFF during post test. Release 50% of ants, spiders and roaches in Chamber A, release another 50% of ants, spiders and roaches in Chamber B.

The Post Test will consist of 20 ants, 20 spiders and 20 roaches. The ants, spiders and roaches are each given 2 days (48 hours) to move freely around chamber A, Chamber B and inside the 8.5 feet long tunnel when the Ultrasonic Pest Repeller is OFF.

No change is made in the ants, spiders and roaches population; the quantity should remain the same.

#### **Testing device dimension (refer to below following figures)**

Testing device for ants, spiders and roaches



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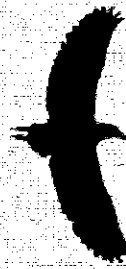


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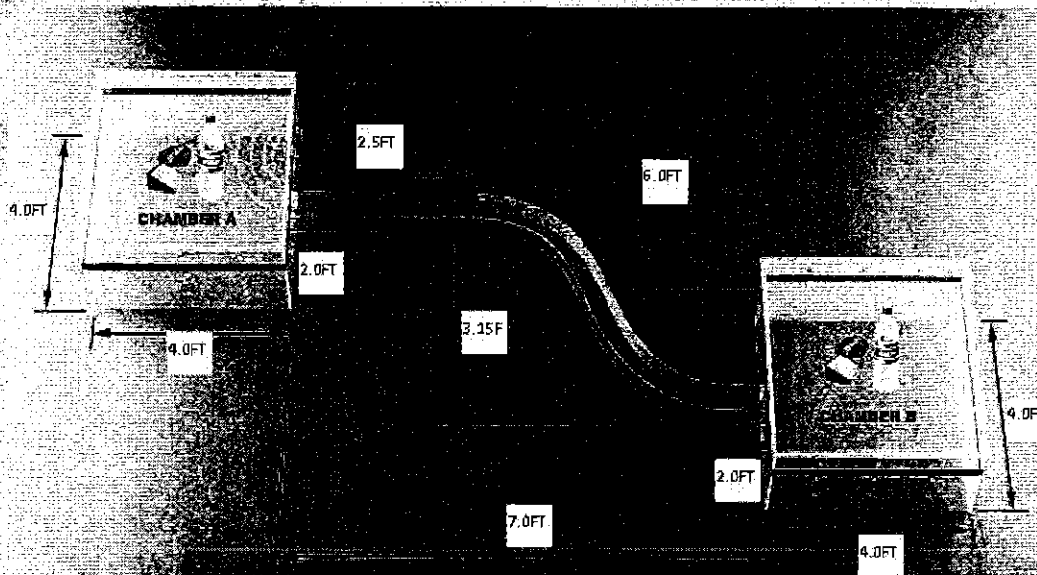
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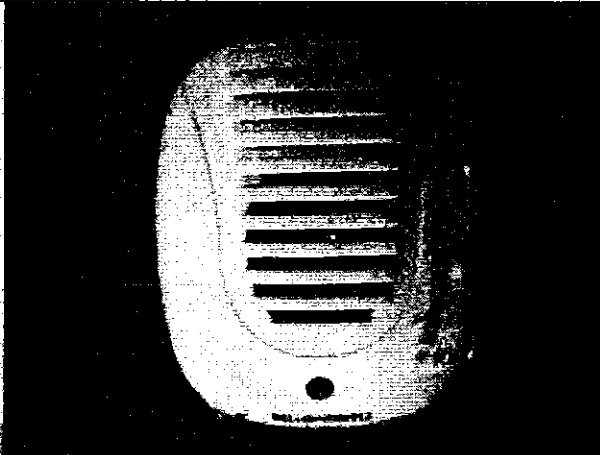
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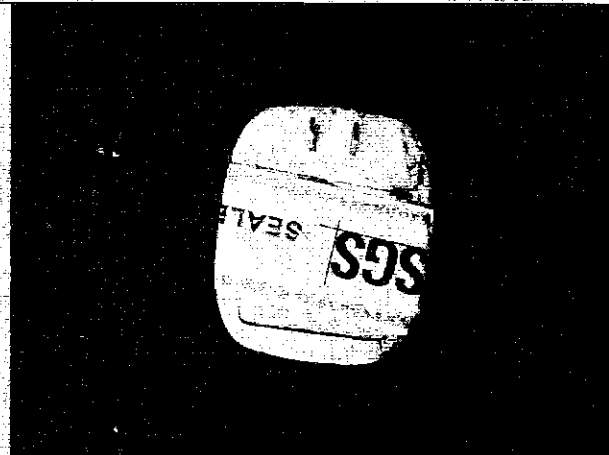
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**SAMPLE INFORMATION**

Two BELL + HOWELL ULTRASONIC PEST REPELLER were received in good condition and could work normally.

**Sample outlook**

The testing sample.



The SGS seal label.

**Test Result Data Measurement -BELL + HOWELL ULTRASONIC PEST REPELLER**

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ants, spiders and roaches		PRELIMINARY TESTING		DURING TESTING							POST TESTING	
		SWITCH OFF		SWITCH ON							SWITCH OFF	
		48Hrs s	24Hrs s	24Hrs s	48Hrs s	72Hrs s	96Hrs s	120Hrs s	144Hrs s	168Hrs s	+24Hrs s	+48Hrs
		(-2 Day)	(-1 Day)	(1 Day)	(2 Day)	(3 Day)	(4 Day)	(5 Day)	(6 Day)	(7 Day)	(+1 Day)	(+2 Day)
Observe Date		April 08, 2016	April 09, 2016	April 10, 2016	April 11, 2016	April 12, 2016	April 13, 2016	April 14, 2016	April 15, 2016	April 16, 2016	April 17, 2016	April 18, 2016
Observe Time		11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM
Chamber A (with the BELL + HOWELL Ultrasonic Pest Repeller)	Ant quantity	6	3	3	5	2	2	2	3	3	2	2
	Spider quantity	8	9	6	5	6	5	7	1	2	1	1
	Roaches quantity	5	5	6	2	5	6	2	4	4	5	6
	consumed water(ml)	8.5	3.5	5.5	5.5	7	0.5	1.5	5	1.5	3	3.5
Chamber B	Ant quantity	11	14	17	13	18	15	8	14	17	18	18
	Spider quantity	9	11	14	15	14	10	9	19	18	19	19
	Roaches quantity	13	11	12	14	15	10	9	14	16	15	14
	consumed water(ml)	7	5	6.5	5.5	7	6.5	6.5	9	6	4.5	7.5

**Note:**

Chamber A was with the BELL + HOWELL Ultrasonic Pest Repeller, Chamber B was without the BELL + HOWELL Ultrasonic Pest Repeller.

**ANTS, SPIDERS & ROACHES FECAL PELLETS & URINE SPOTS RECORD REPORT**

STAGE/ SWITCH ON/OFF	DATE	SUBJECT	CHAMBER: A (BELL + HOWELL Ultrasonic Pest Repeller)	CHAMBER: B
SWITCH OFF	April 08, 2016	ants, spiders and roaches	Little	Little
	April 09, 2016	ants, spiders and roaches	Little	Little

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<b>DURING TESTING</b>	<b>SWITCH ON</b>	April 10, 2016	ants, spiders and roaches	Little	Little
		April 11, 2016	ants, spiders and roaches	Little	Little
		April 12, 2016	ants, spiders and roaches	Little	Little
		April 13, 2016	ants, spiders and roaches	Little	Little
		April 14, 2016	ants, spiders and roaches	Little	Little
		April 15, 2016	ants, spiders and roaches	Little	Little
		April 16, 2016	ants, spiders and roaches	Little	Little
<b>POST TESTING</b>	<b>SWITCH OFF</b>	April 17, 2016	ants, spiders and roaches	Little	Little
		April 18, 2016	ants, spiders and roaches	Little	Little

**Note:**

Fecal pellet and urine spots are observed and witnessed by eyes. Due to tiny and irregular sizes, ants, spiders and roaches' fecal pellet & urine spots are not easy to count, therefore quantity difference is described by three levels – little, very little and more.

**Remark:**

There were no ethical issues involved observation of animals/pests carrying out their natural or normal behaviors. Declared by client, this tests were carried out full time 7/24 video recording with multiple cameras, targeting different chambers contained spiders, ants and spiders. As well, written pest head counts, water/food consuming records, fecal pellets/urines tracking records were recorded in details by our lab technicians on a daily basis. Within the 11 days (2 days pre-test, 7 days during-test, 2 days post-test), we confirm that video recording data are authentic.

**Appendix 1**

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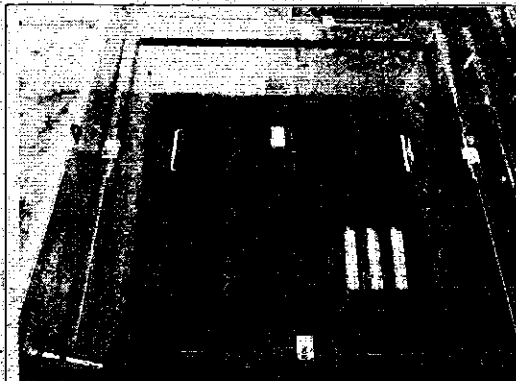


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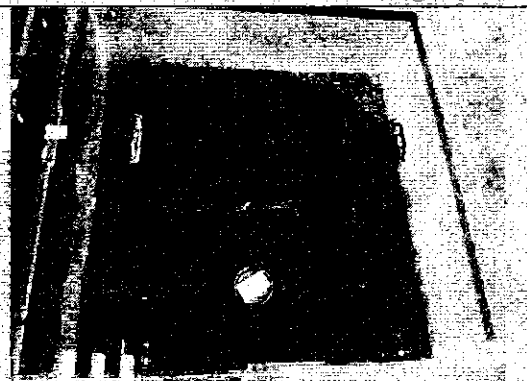
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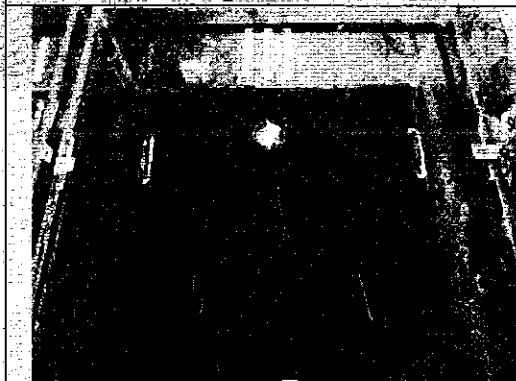
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Testing device overlook



Testing device overlook



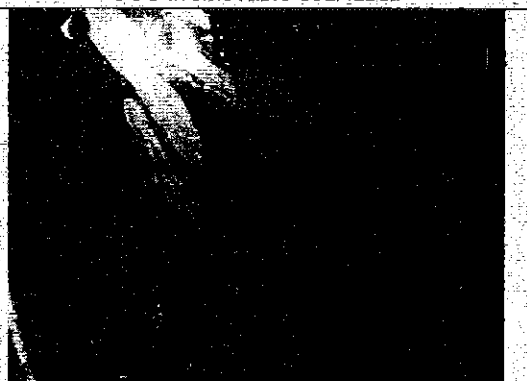
SGS irremovable seal label.



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View of Testing Box



View of Testing Box

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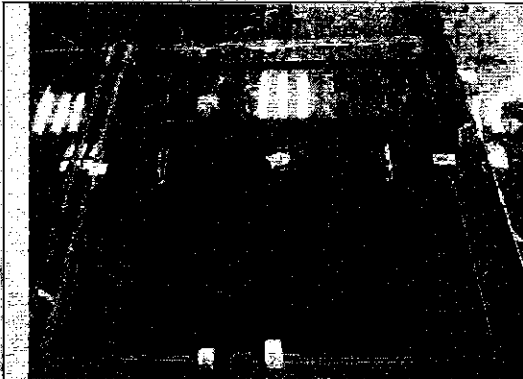


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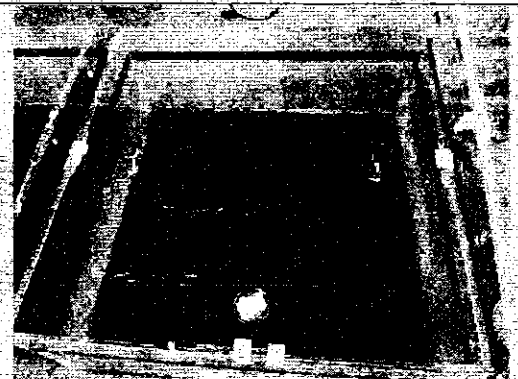
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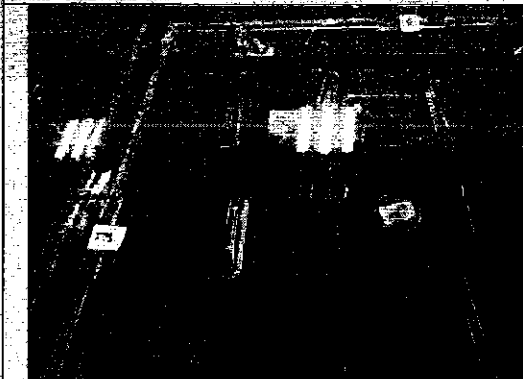
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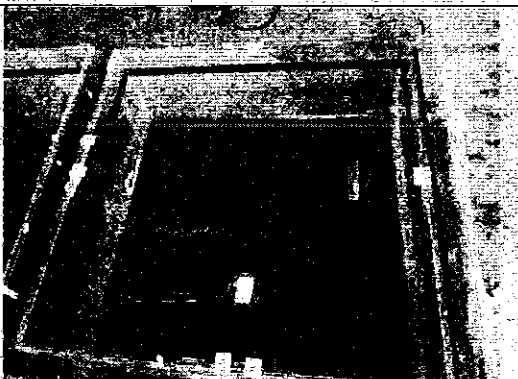
Status under repellent switched off(chamber A)



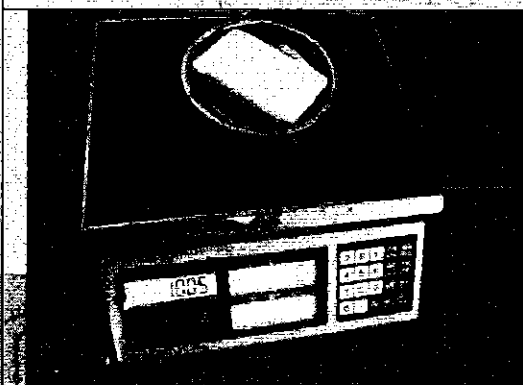
Status under repellent switched off(chamber B)



Status under repellent switched on(chamber A)



Status under repellent switched on(chamber B)



Water gross weight check



Consumed water weight check

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**SGS****Affiliate Code : F615001****Report N° : 16052501EB****Page N°: 10/ 10****View of Video Cameras****Remark:**

PICTURE SHOWING MULTIPLE VIDEO CAMERAS SET UP AT THE VENUE. DECLARED BY CLIENT, EACH CAMERA TARGETED AT SPECIFIC CHAMBER. PEST ACTIVITIES OF ALL CHAMBERS HAVE BEEN RECORDED WITHOUT INTERRUPTION DURING 11 DAYS OF TESTING.

**This report replaces the report No.1605200269, the report No.1605200269 has been canceled.**

**Note:**

In accordance with Client's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the facilities where the intervention(s) took place. The Company's sole responsibility was to be present at the time of the third party's intervention(s) and to confirm and report the occurrence of the intervention(s). The Company is not responsible for methods applied, the qualifications, actions or omissions of the third party's personnel or the results or effectiveness of the intervention(s).

SGS Inspector: 李吉华 Factory Representative: \_\_\_\_\_

**\*\*End of Report\*\***

***The above report reflects our findings at the time, date and place of inspection only and does not refer to any other matter.***

**Guangzhou, May 25, 2016****SGS-CSTC Standards Technical Services Co., Ltd.****SGS**

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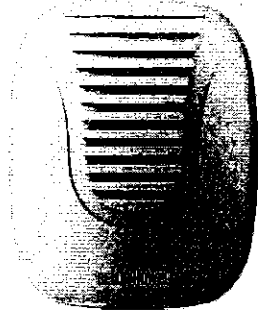
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## 2016 SGS TEST RESULT EXPLANATION ANTS / SPIDERS / ROACHES

May 23, 2016

REPORT NO.	1605200269	 <p style="text-align: center;">Pest Repeller</p>
LABORATORY	SGS-CSTC STANDARDS TECHNICAL SERVICES CO., LTD.	
TESTING PERIOD	APRIL 7 ~ APRIL 18, 2016	
PRODUCT	ULTRASONIC PEST REPELLER	
PEST	ANTS / SPIDERS / ROACHES	

### CONSTRUCTION OF TESTING CHAMBER

- The test was conducted in two completely separate sealed plastic chambers. Each chamber is 4' x 4' x 1.5'.
- Pest Repeller was placed in chamber A.
- In between chambers, there is a 7 feet long plastic tunnel. The tunnel is "curved", two chambers are designed in HI-LO levels. The curved and Hi-Lo tunnel design is to further ensure ultrasonic sound wave will not enter from chamber A into chamber B since sound wave is very directional.
- All edges/gaps are sealed securely with SGS unbreakable labels. Only SGS inspectors were allowed to open the chambers to count mice/rats quantities, weighted food and water, and replaced new seals after counting on a daily basis.
- 20 each healthy adult Ants / Spiders / Roaches were used for this testing.
- Released 50% mice/rats into chamber A and another 50% in Chamber B at the beginning of the test.
- There were 3 testing stages;
  - Preliminary Testing: 2 days = 48 hours, pest repeller was switched OFF
  - During Testing: 7 days = 168 hours, pest repeller was switched ON
  - Post Testing: 2 days = 48 hours, pest repeller was switched OFF

### VIDEO RECORDING

- See page 7 ""there were no ethical issues involved observation of animals/pests carrying out their natural or normal behaviors. Declared by client, this test were carried out full time 7/24 video recording with multiple cameras, targeting different chambers contained mice, rats. As well, written pest head counts, water/food consuming records, fecal pellets/urines tracking records were recorded in details by lab technicians on a daily basis.""

- See Page 10 ""Picture showing multiple video cameras set up at the venue. Declared by client, each camera targeted at specific chamber, pest activities of all chambers have been recorded without interruption during 11 days of testing"

## **TEST RESULTS**

### **ANTS (PAGE 6)**

- During Testing result showed Ants gradually moved from Chamber A (where pest repeller was working) to Chamber B. During Post Testing, Ants quantities remained low in Chamber A, proved they still had memories/habits to stay away where Pest Repeller was working before.

PRE-TESTING		DURING TESTING							POST TESTING	
Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11
35%	18%	15%	28%	10%	12%	20%	18%	15%	10%	10%

- Water consumption was noticeably much LESS in Chamber A During Testing when pest repeller was working.

DURING TESTING						
Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9
-15%	0 %	0 %	- 92%	- 77%	-45%	-75%

### **SPIDERS (PAGE 6)**

- During Testing result showed Spiders gradually moved from Chamber A (where pest repeller was working) to Chamber B. During Post Testing, Spiders quantities remained low in Chamber A, proved they still had memories/habits to stay away where Pest Repeller was working before.

PRE-TESTING		DURING TESTING							POST TESTING	
Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11
47%	45%	30%	25%	30%	33%	44%	5%	10%	5%	5%

- Water consumption was noticeably much LESS in Chamber A During Testing period when pest repeller was working.

DURING TESTING						
Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9
-15%	0 %	0 %	- 92%	- 77%	-45%	-75%

### **ROACHES (PAGE 6)**

- During Testing result showed Roaches gradually moved from Chamber A (where pest repeller was working) to Chamber B. During Post Testing, Roaches quantities remained low in Chamber A, proved they still had memories/habits to stay away where Pest Repeller was working before.

PRE-TESTING		DURING TESTING							POST TESTING	
Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11
28%	31%	33%	13%	25%	38%	18%	22%	20%	25%	30%



- Water consumption was noticeably much LESS in Chamber A During Testing period when pest repeller was working.

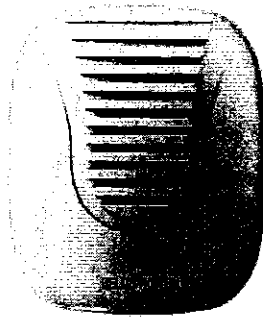
DURING TESTING						
Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9
-15%	0 %	0 %	- 92%	- 77%	-45%	-75%

#### URINE SPOTS / FECAL PELLETS COUNT (PAGE 6~7)

- Lab technician traced and recorded ants / spiders / roaches urine spots and fecal pellets on a daily basis, this helped to further understand pest's activities and behaviors under the influence of ultrasonic sound.
- When pest repeller was switched on During Testing, urine spots and fecal pellets appeared to be much LESS quantities in Chamber A.
- When pest repeller was switched off during Preliminary and Post testing periods, urine spots and fecal pellet quantities appeared to be more EVEN in two chambers.

## 2016 SGS TEST RESULT EXPLANATION RATS / MICE

**May 23, 2016**

REPORT NO.	1605230005D	 <p style="text-align: center;">Pest Repeller</p>
LABORATORY	SGS-CSTC STANDARDS TECHNICAL SERVICES CO., LTD.	
TESTING PERIOD	APRIL 7 ~ APRIL 18, 2016	
PRODUCT	ULTRASONIC PEST REPELLER	
PEST	MICE / RATS	

### CONSTRUCTION OF TESTING CHAMBER

- The test was conducted in two completely separate sealed plastic chambers. Each chamber is 4' x 4' x 1.5'.
- Pest Repeller was placed in chamber A.
- In between, there is a 7 feet long plastic tunnel. The tunnel is "curved", two chambers are designed in HI-LO levels. The curved and Hi-Lo tunnel design is to further ensure ultrasonic sound wave will not enter from chamber A into chamber B since sound wave is very directional.
- All edges/gaps are sealed securely with SGS unbreakable labels. Only SGS inspectors were allowed to open the chambers to count mice/rats quantities, weighted food and water, and replaced new seals after counting on a daily basis.
- 20 healthy adult Mice and 20 healthy adult Rats were used for this testing.
- Released 50% mice/rats into chamber A and another 50% in Chamber B at the beginning of the test.
- There were 3 testing stages;
  - Preliminary Testing: 2 days = 48 hours, pest repeller was switched OFF
  - During Testing: 7 days = 168 hours, pest repeller was switched ON
  - Post Testing: 2 days = 48 hours, pest repeller was switched OFF

### VIDEO RECORDING

- See page 8 ""there were no ethical issues involved observation of animals/pests carrying out their natural or normal behaviors. Declared by client, this test were carried out full time 7/24 video recording with multiple cameras, targeting different chambers contained mice, rats. As well, written pest head counts, water/food consuming records, fecal pellets/urines tracking records were recorded in details by lab technicians on a daily basis. Within the 11 days (2 days pre-test, 9 days during-test and 2 days post-test), we confirm that video recording data are authentic.""



- See Page 13 ""Picture showing multiple video cameras set up at the venue. Declared by client, each camera targeted at specific chamber, pest activities of all chambers have been recorded without interruption during 11 days of testing""

## TEST RESULTS

### RATS (PAGE 6)

- During Testing showed Rats gradually moved from Chamber A (where pest repeller was working) to Chamber B.

PRE-TESTING		DURING TESTING							POST TESTING	
Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11
20%	15%	10%	10%	30%	15%	30%	5%	0%	25%	25%

- Food consumption was noticeably much LESS in Chamber A During Testing period when pest repeller was working.

DURING TESTING						
Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9
-14%	+15%	-64%	-82%	-92%	-42%	-62%

- Water consumption was noticeably much LESS in Chamber A During Testing period when pest repeller was working.

DURING TESTING						
Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9
+11%	-40%	-13%	0 %	-89%	-88%	-84%

### MICE (PAGE 6~7)

- During Testing showed Mice gradually moved from Chamber A (where pest repeller was working) to Chamber B.

PRE-TESTING		DURING TESTING							POST TESTING	
Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11
35%	42%	52%	45%	40%	40%	21%	25%	5%	65%	45%

- Food consumption was noticeably much LESS in Chamber A During Testing period when pest repeller was working.

DURING TESTING						
Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9
-10%	-19%	-40%	-57%	-53%	-44%	-58%

- Water consumption was noticeably much LESS in Chamber A During Testing period when pest repeller was working.

DURING TESTING						
Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9
-2%	+15%	-89%	-72%	-80%	-15%	-48%

**URINE SPOTS / FECAL PELLETS COUNT (PAGE 9)**

- Lab technician traced and recorded rats/mice urine spots and fecal pellets on a daily basis, this helped to further understand pest's activities and behaviors under the influence of ultrasonic sound.
- When pest repeller was switched on During Testing, urine spots and fecal pellets appeared to be noticeably much LESS quantities in Chamber A.
- When pest repeller was switched off during Preliminary and Post testing periods, urine spots and fecal pellet quantities appeared to be more EVEN in two chambers.

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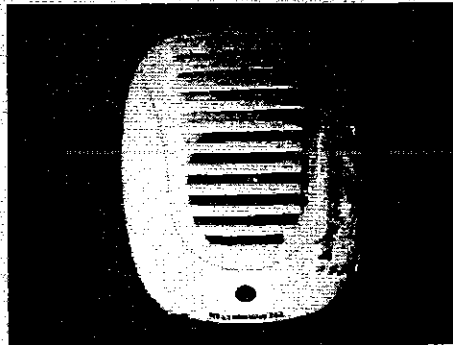
**SGS****Affiliate Code : F615001****Report N° : 160523005D**

Page N°: 1/ 13

**TESTING WITNESS REPORT**

Report No.: AFL20160214GZ-1

To :	INTELLITEC INTERNATIONAL INC.	Date:	MAY 20, 2016
Att :	DEBBIE FEUERSTEIN		
From :	SGS-CSTC Standards Technical Services Co., Ltd.		

SGS File No.:	AFL20160214GZ-1	Testing Device	Overlook
Declared Buyer:	VAN HAUSER 230, FIFTH AVENUE, NEW YORK, NY 10001, USA		
Declared Supplier:	INTELLITEC INTERNATIONAL INC.		
Declared Manufacturer:	INTELLITEC INTERNATIONAL INC.		
Declared Style Number:	ULTRASONIC PEST REPELLER		
Declared Product description:	BELL + HOWELL ULTRASONIC PEST REPELLER		
Service Style :	TESTING WITNESS		
Service Date :	April 07, 2016-April 18, 2016		
Testing Location :	DONGGUAN, CHINA		

**Testing Criteria**

Testing sample provided by	By Supplier(See protocol)
Client instruction/specification	Yes(See protocol)
SGS WI number	N/A
Other	

**Comments / Remarks: (Reason)**

-Found 3 rats dead during testing, then added new rats.

-Found 3 mice dead during testing, then added new mice.

-Four edges of all chambers were closed securely up by SGS inspector with special seals. The seal is unbreakable and stamped with SGS company stamp. Each day after counting mice/rat quantities and weighting water and food, SGS inspector replaced with new seals.

**STUDY TITLE**

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SGS

Affiliate Code : F615001

Report N° : 160523005D

Page N°: 2/13

## EFFICACY EVALUATION OF BELL + HOWELL ULTRASONIC PEST REPELLER AGAINST MICE / RATS

### OBJECT

TEST BELL + HOWELL ULTRASONIC PEST REPELLER AGAINST RATS AND MICE IN LABORATORY ENVIRONMENT. CONDUCTING OBSERVATIONS IN TOTAL 11 DAYS PERIOD, INCLUDING 2 DAYS PRELIMINARY TEST, 7 DAYS DURING TEST AND 2 DAYS POST TEST. THIS IS TO MEASURE THE EFFICACY OF HIGH-FREQUENCY SOUND AS A PESTS MANAGEMENT TOOL. BOTH FREQUENCY AND SOUND PRESSURE (dB) ARE IMPORTANT PARAMETERS.

### MATERIALS

FORMULATIONS	BELL + HOWELL ULTRASONIC PEST REPELLER
TEST ARTHROPODS	ADULT & HEALTHY RATS AND MICE
APPLICATION DEVICES	BELL + HOWELL ULTRASONIC PEST REPELLER
TESTING CHAMBER	SEE BELOW DIAGRAM

### METHODS

#### Summary

2 feet long plastic tunnel is made to connect two chambers on each side. Each chamber is 4 feet (L) x 4 feet (W) x 1.5 feet (H). Ultrasonic Pest Repeller is placed at Chamber A. Chamber B is without the Ultrasonic Pest Repeller. Both sides have equal amount of food and water. Rats and mice will be recorded at 24 hour intervals for 11 days (or 264 hours). The number of rats / mice will be recorded in each chamber. Any rats / mice are found in Chamber B (without the Ultrasonic Pest Repeller) will be counted as repelled. Any rats / mice remain in Chamber A (with Ultrasonic Pest Repeller) will be counted as not repelled.

Determine the efficacy of the Ultrasonic Pest Repeller for repelling rats and mice. This device is tested over a 24 hours interval and 11 day (or 264 hours) period in a laboratory environment. The test was preceded by a two-day preliminary test to ensure that the test apparatus and the selected food functioned properly.

#### Test sample

The test sample will be stored in a locked cabinet at ambient temperature and humidity until use in the study.

#### Preparation and Handling of RATS / Mice

20 Rats and 20 Mice will be used for both the control test and active test. As rats are larger and far more aggressive than mice, they can, and often do, kill mice. Therefore the testing of rats and mice must be conducted separately in different times.

The test will be conducted in two plastic chambers; each chamber is 4 feet (L) x 4 feet (W) x 1.5 feet (H). In between, there is a 2 feet long plastic tunnel to connect two chambers on each side, the RATS and mice will each be given 11 days (264 hours) to move freely around Chamber A and Chamber B and inside the tunnel.

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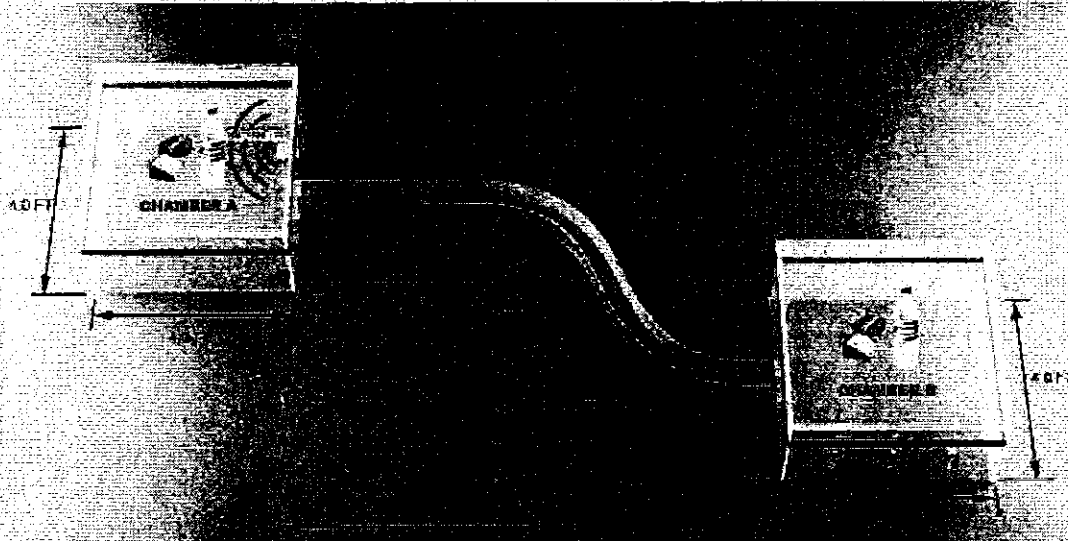
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Page N°: 3/ 13

***Food and Water Consumption***

Rats eat a wide variety of food. They mostly prefer grain, livestock feed, and meat. The rat primary consumption comes in the form of water. Rat needs 1/2 to 1 ounce of water daily. An equal amount of food and water will be placed in each chamber, including a mixture of grain and meat. Food and water will be refilled and recorded daily.

Mice prefer pellet- and seed-based food. Mice generally eat food common to the rodent family, (rats, hamsters, gerbils, etc.), which typically includes pellet- and seed-based food. An equal amount of food and water will be placed in each chamber. The quantity of food and water will be refilled and recorded daily.

Data related to food and water consumption will be recorded in each chamber on a 24-hour interval throughout a 11-day period. The data will be used to identify changes in the eating behavior of mice and rats due to the impact of the Ultrasonic Pest Repeller.

***Fecal pellet counts & Urine spots***

Record and trace fecal pellets of rats / mice on a 24 hours interval and 11 days (264 hours) period in each chamber. There is no fecal pellet for spiders, but we can trace urine spots on a 24 hours interval and 11 days (264 hours) period in each chamber. Neither fecal pellet nor urine spots for ants. This data will aid in understanding additional behavioral changes resulting from the Pest repeller.

***Preliminary Testing***

Rats/Mice activity will be documented before and after device installation. To observe general activity, a Preliminary Test will be conducted before the actual test to ensure the test apparatus and the selected food functioned properly. The Pest Repeller will be turned "off" during preliminary testing. The release of rats and mice in Chamber A and Chamber B will be proportionate with 50% of rats and mice distributed in each chamber.

The Preliminary Test will consist of 20 rats and 20 mice. The rats and mice will be each allotted 2 days (48 hours) to move freely around chamber A, Chamber B and inside the tunnel prior to the introduction of the Pest Repeller.

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**SGS**

**Affiliate Code : F615001**

**Report N° : 160523005D**

**Page N°: 4/ 13**

**Observation of Repellency (During Testing)**

Release 50% of rats and mice in Chamber A, and another 50% of rats and mice in Chamber B. Turn On the Ultrasonic Pest Repeller. Rats and mice will be recorded at 24 hour intervals for 7 days (or 168 hours). Any rats and mice that stay in the Chamber B (without the Ultrasonic Pest Repeller) will be counted as repelled. Any rats and mice stay inside Chamber A (with the Ultrasonic Pest Repeller) will be counted as not repelled.

The actual control and non-control test will consist of 20 adult rats and 20 mice. The rats and mice will each be given 11 days (264 hours) to move freely around Chamber A and Chamber B and inside the tunnel.

**Post Testing**

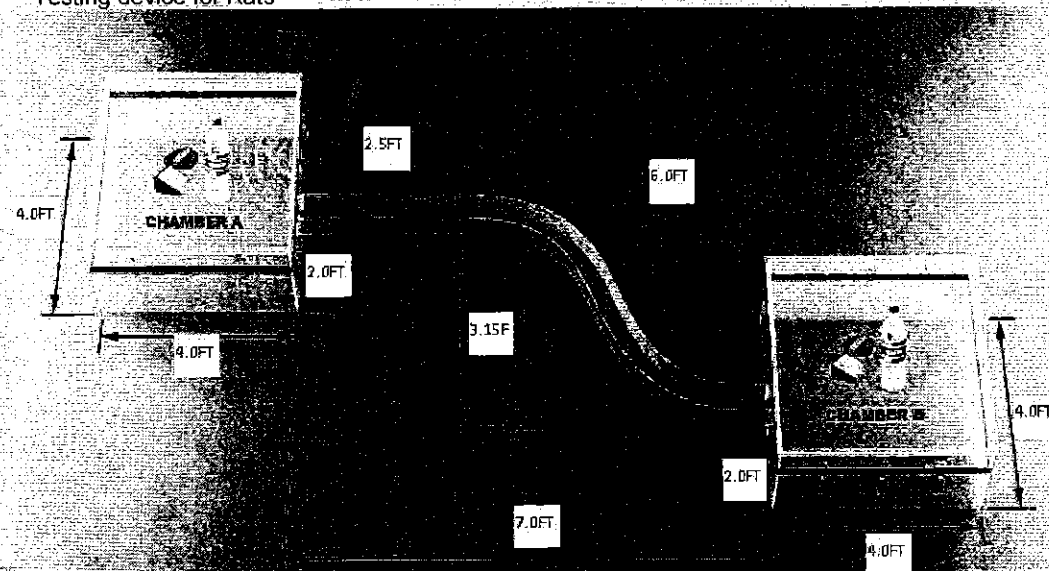
To observe general activity, a post test will be conducted to ensure the test apparatus and the selected food functioned properly. Ultrasonic Pest Repeller will be turned OFF during post test. Release 50% of rats and mice in Chamber A, release another 50% of rats and mice in Chamber B.

The Post Test consists of 20 rats and 20 mice. The rats and mice are each given 2 days (48 hours) to move freely around chamber A, Chamber B and inside the tunnel.

No change is made in the rats /mice population. Rats and mice quantity should remain the same.

**Testing device dimension (refer to below following figures)**

Testing device for Rats



Testing device for Mice



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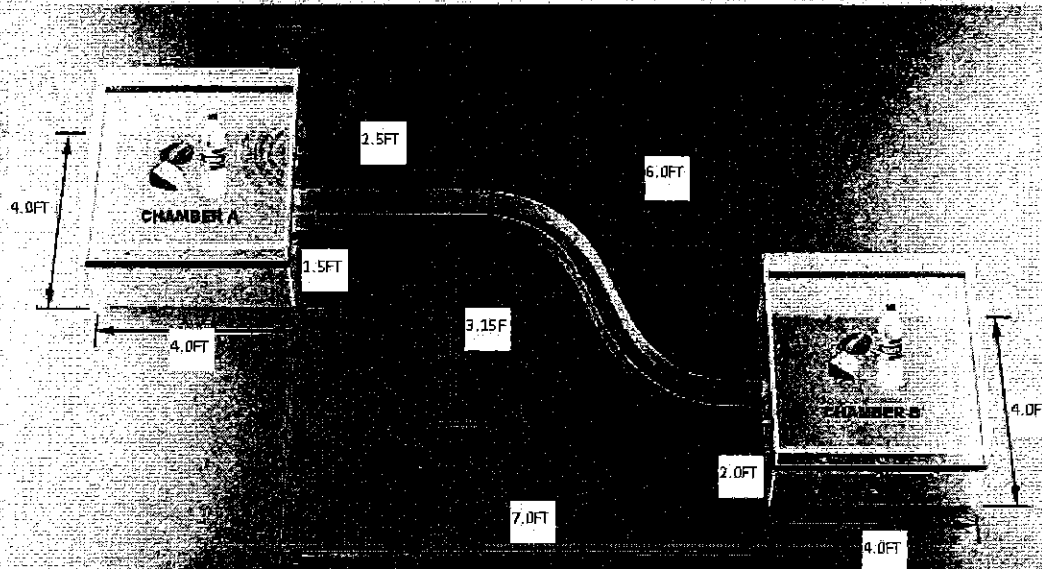


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**Affiliate Code : F615001**

**Report N° : 160523005D**

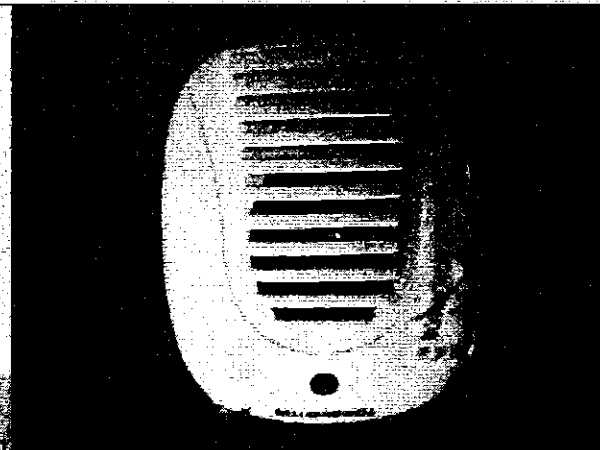
**Page N°: 5/ 13**



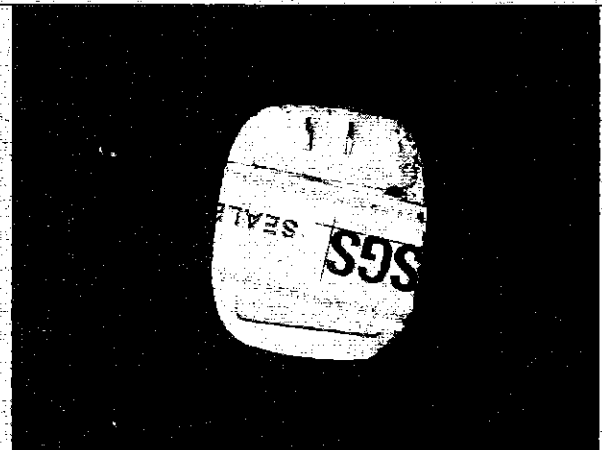
**SAMPLE INFORMATION**

Two Ultrasonic Pest Repellers were received in good condition and could work normally.

**Sample outlook**



the testing sample



the SGS seal label.

**Test Result Data Measurement -BELL + HOWELL ULTRASONIC PEST REPELLER**

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RATS		PRELIMINARY TESTING		DURING TESTING							POST TESTING	
		SWITCH OFF		SWITCH ON							SWITCH OFF	
		48Hrs	24Hrs	24Hrs	48Hrs	72Hrs	96Hrs	120Hrs	144Hrs	168Hrs	+24Hrs	+48Hrs
		(-2 Day)	(-1 Day)	(1 Day)	(2 Day)	(3 Day)	(4 Day)	(5 Day)	(6 Day)	(7 Day)	(+1 Day)	(+2 Day)
Observe Date		April 08, 2016	April 09, 2016	April 10, 2016	April 11, 2016	April 12, 2016	April 13, 2016	April 14, 2016	April 15, 2016	April 16, 2016	April 17, 2016	April 18, 2016
Observe Time		11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM
Chamber A (with the BELL + HOWELL Ultrasonic Pest Repeller)	quantity	4	3	2	2	6	3	6	1	0	5	5
	consumed food(g)	169	176.5	167.5	160.5	98.5	51.5	22	162	103.5	208	293.5
	consumed water(ml)	173	223.5	83.5	121.5	137	108.5	31.5	24	27.5	160	192
Chamber B	quantity	16	17	17	17	12	15	14	19	20	14	15
	consumed food(g)	146	193	193.5	139.5	270	286	261.5	280	270	247.5	205.5
	consumed water(ml)	223	166	75	204	157.5	180.5	276.5	196	175	207	177

**Note:**

Chamber A was with the Ultrasonic Pest Repeller, Chamber B was without the Ultrasonic Pest Repeller.

**Test Result Data Measurement – BELL + HOWELL ULTRASONIC PEST REPELLER**

MICE		PRELIMINARY TESTING		DURING TESTING							POST TESTING	
		SWITCH OFF		SWITCH ON							SWITCH OFF	
		48Hrs	24Hrs	24Hrs	48Hrs	72Hrs	96Hrs	120Hrs	144Hrs	168Hrs	+24Hrs	+48Hrs
		(-2 Day)	(-1 Day)	(1 Day)	(2 Day)	(3 Day)	(4 Day)	(5 Day)	(6 Day)	(7 Day)	(+1 Day)	(+2 Day)
Observe Date		April 08, 2016	April 09, 2016	April 10, 2016	April 11, 2016	April 12, 2016	April 13, 2016	April 14, 2016	April 15, 2016	April 16, 2016	April 17, 2016	April 18, 2016
Observe Time		11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM

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Chamber A (with the BELL + HOWELL Ultrasonic Pest Repeller)	quantity	7	8	10	9	8	8	4	5	1	13	9
	consumed food(g)	194.5	106	134.5	152	146	107	107.5	168.5	100	244	212.5
	consumed water(ml)	287	226	234	221	26.5	85	59.5	255	102	55	100
Chamber B	quantity	13	11	9	11	12	12	15	15	19	7	11
	consumed food(g)	161	129.5	149	188	243.5	250	228	300	237.5	278	259
	consumed water(ml)	184.5	173	237.5	193	232	300	300	300	194.5	268	199.5

**Note:**

Chamber A was with the Ultrasonic Pest Repeller, Chamber B was without the Ultrasonic Pest Repeller

**RATS/MICE FECAL PELLET & URINE SPOTS RECORD REPORT**

STAGE/ SWITCH ON/OFF		DATE	SUBJECT	CHAMBER A (W/PEST REPELLER)	CHAMBER B
PRELIMINARY TESTING	SWITCH OFF	April 08, 2016	RATS	Equal	Equal
			MICE	Equal	Equal
		April 09, 2016	RATS	Equal	Equal
			MICE	Equal	Equal
DURING TESTING	SWITCH ON	April 10, 2016	RATS	Little	More
			MICE	More	Little
		April 11, 2016	RATS	Little	More
			MICE	Little	More
		April 12, 2016	RATS	Little	More
			MICE	Little	More
		April 13, 2016	RATS	Little	More
			MICE	Little	More
		April 14, 2016	RATS	Little	More
			MICE	Little	More
		April 15, 2016	RATS	Little	More
			MICE	More	Little
		April 16, 2016	RATS	Little	More
			MICE	Little	More

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**SGS**

**Affiliate Code : F615001**

**Report N° : 160523005D**

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POST TESTING	SWITCH OFF	April 17, 2016	RATS	More	Little
			MICE	More	Little
		April 18, 2016	RATS	Equal	Equal
			MICE	Equal	Equal

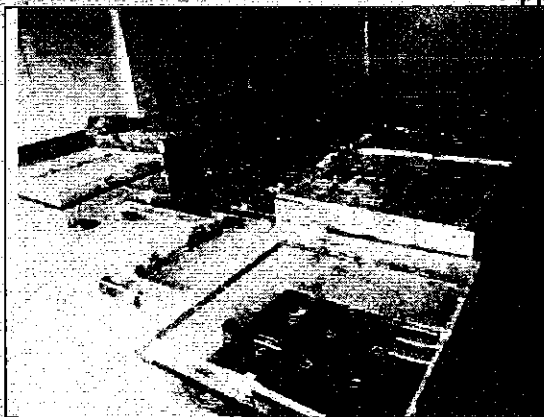
**Note:**

Fecal pellet and urine spots are observed and witnessed by eyes. Due to tiny and irregular sizes, Rats and mice's fecal pellet & urine spots are not easy to count, therefore quantity difference is described by three levels – little, very little and more.

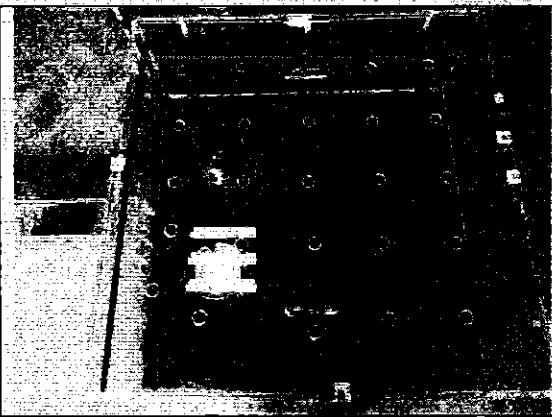
**Remark:**

There were no ethical issues involved observation of animals/pests carrying out their natural or normal behaviors. Declared by client, this tests were carried out full time 7/24 video recording with multiple cameras, targeting different chambers contained mice, rats. As well, written pest head counts, water/food consuming records, fecal pellets/urines tracking records were recorded in details by our lab technicians on a daily basis. Within the 11 days (2 days pre-test, 7 days during-test, 2 days post-test), we confirm that video recording data are authentic.

**Appendix 1**



Testing device overlook



Rats Testing device overlook

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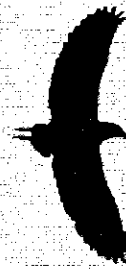
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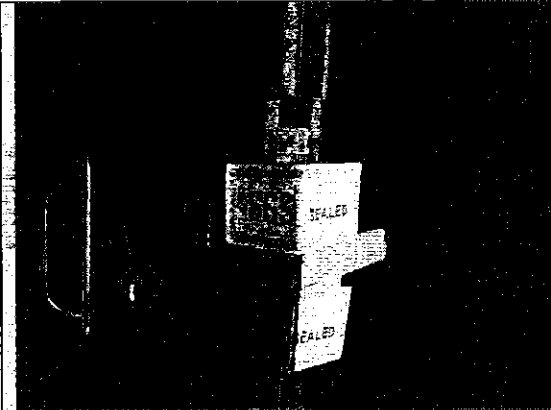
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Report N° : 160523005D

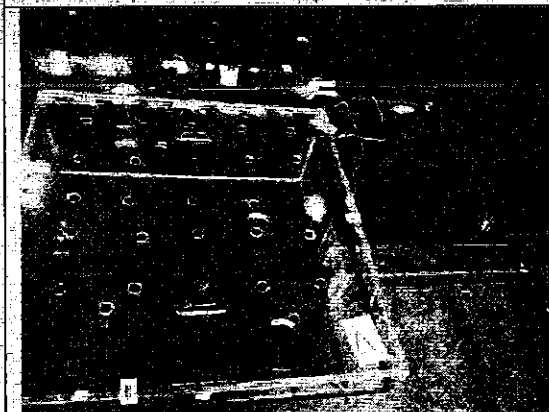
Page N°: 9/13



SGS irremovable seal label



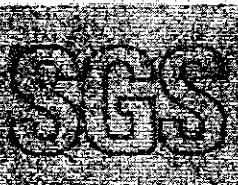
SGS irremovable seal label



Status under repellent switched off(chamber A)



Status under repellent switched off(chamber B)



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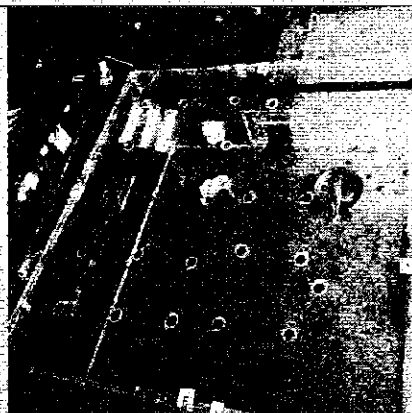
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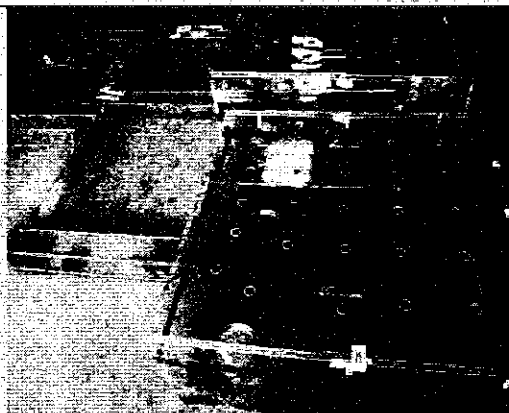
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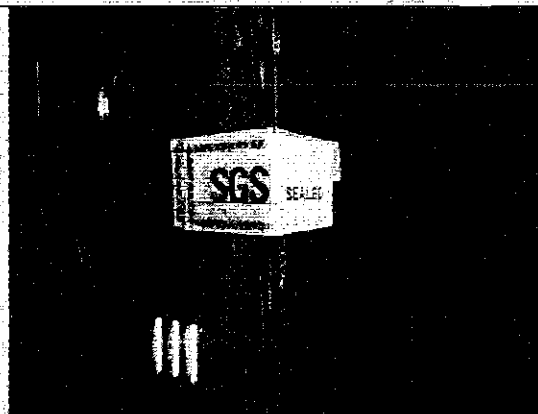
Status under repellent switched on(chamber A)



Status under repellent switched on(chamber B)



Mice testing device overlook



SGS irremovable seal label



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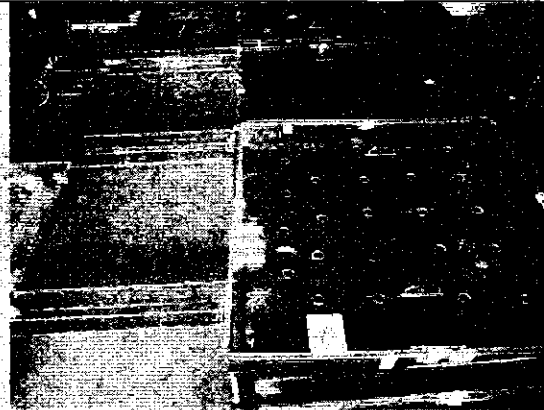
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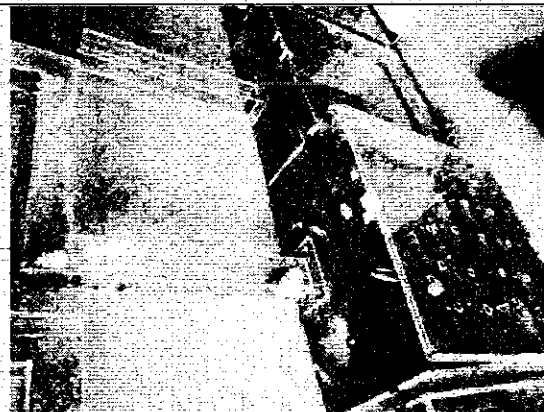
Status under repellent switched off(chamber A)



Status under repellent switched off(chamber B)



Status under repellent switched on(chamber A)



Status under repellent switched on(chamber B)

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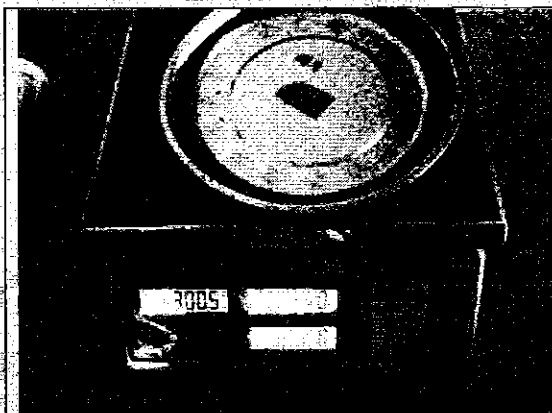
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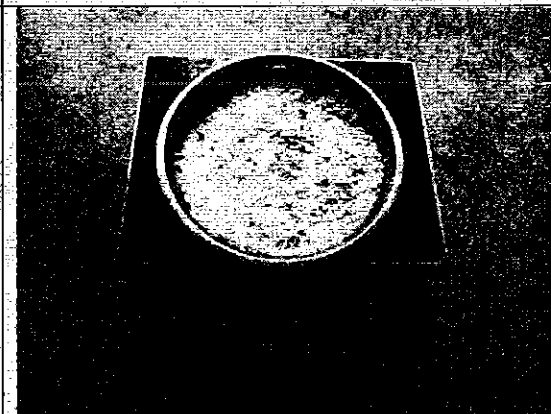
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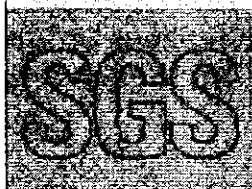
Consumed water weight check



Food gross weight check



Consumed food weight

**View of Video Cameras**

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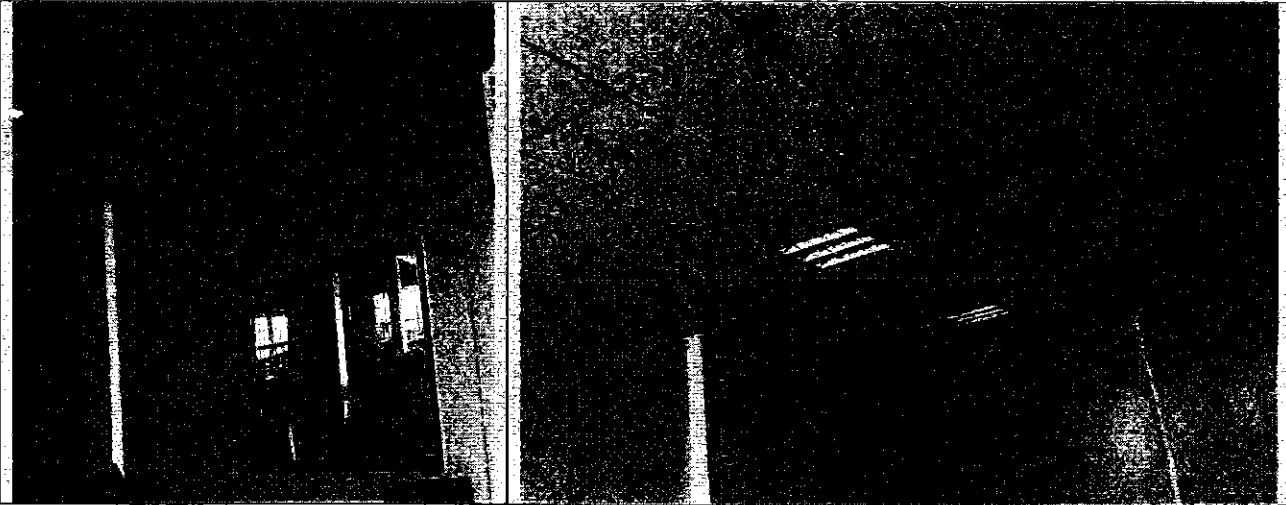


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Report N° : 160523005D

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**Remark:**

PICTURE SHOWING MULTIPLE VIDEO CAMERAS SET UP AT THE VENUE. DECLARED BY CLIENT, EACH CAMERA TARGETED AT SPECIFIC CHAMBER, PEST ACTIVITIES OF ALL CHAMBERS HAVE BEEN RECORDED WITHOUT INTERRUPTION DURING 11 DAYS OF TESTING.

**Note:**

In accordance with Client's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the facilities where the intervention(s) took place. The Company's sole responsibility was to be present at the time of the third party's intervention(s) and to confirm and report the occurrence of the intervention(s). The Company is not responsible for methods applied, the qualifications, actions or omissions of the third party's personnel or the results or effectiveness of the intervention(s).

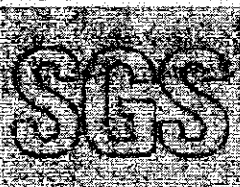
SGS Inspector: 李吉华 Factory Representative: \_\_\_\_\_

**\*\*End of Report\*\***

*The above report reflects our findings at the time, date and place of inspection only and does not refer to any other matter.*

Guangzhou, May 23, 2016

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## **TEST REPORT**

**Report Number: 160419051GZU-002**

**Issued Date: May 26, 2016**

**Applicant** : INTELLITEC INTERNATIONAL INC.  
**Address** : Unit201 Yuekai Commercial Building, NO28, Dongyuan Road, Changping Town, Dongguan  
**Manufacturer** : INTELLITEC INTERNATIONAL INC.  
**Address** : Unit201 Yuekai Commercial Building, NO28, Dongyuan Road, Changping Town, Dongguan

### **Specimen Description**

**Product** : BELL + HOWELL Ultrasonic Pest Repeller  
**Sample Received Date** : Provided by applicant on April 7, 2016  
**Quantity of Sample** : 1 piece

### **Test Content**

**Date Test Conducted** : From April 7, 2016 to April 18, 2016  
**Test Requested** : Witness for performance testing  
- Ants, Spiders and Roaches  
**Test Standard/Method** : According to client's requirement.  
**Test Location** : Dongguan, Guangdong, China

**Test Results** : Please see the following pages for details

*Remark: When determining the test conclusion, the Measurement Uncertainty of test has been considered.*

Prepared by:

Reviewed by:

A handwritten signature in black ink, appearing to read "Leo Lin".

Leo Lin  
Engineer

A handwritten signature in black ink, appearing to read "Sam Lin".

Sam Lin  
Supervisor

**Intertek**

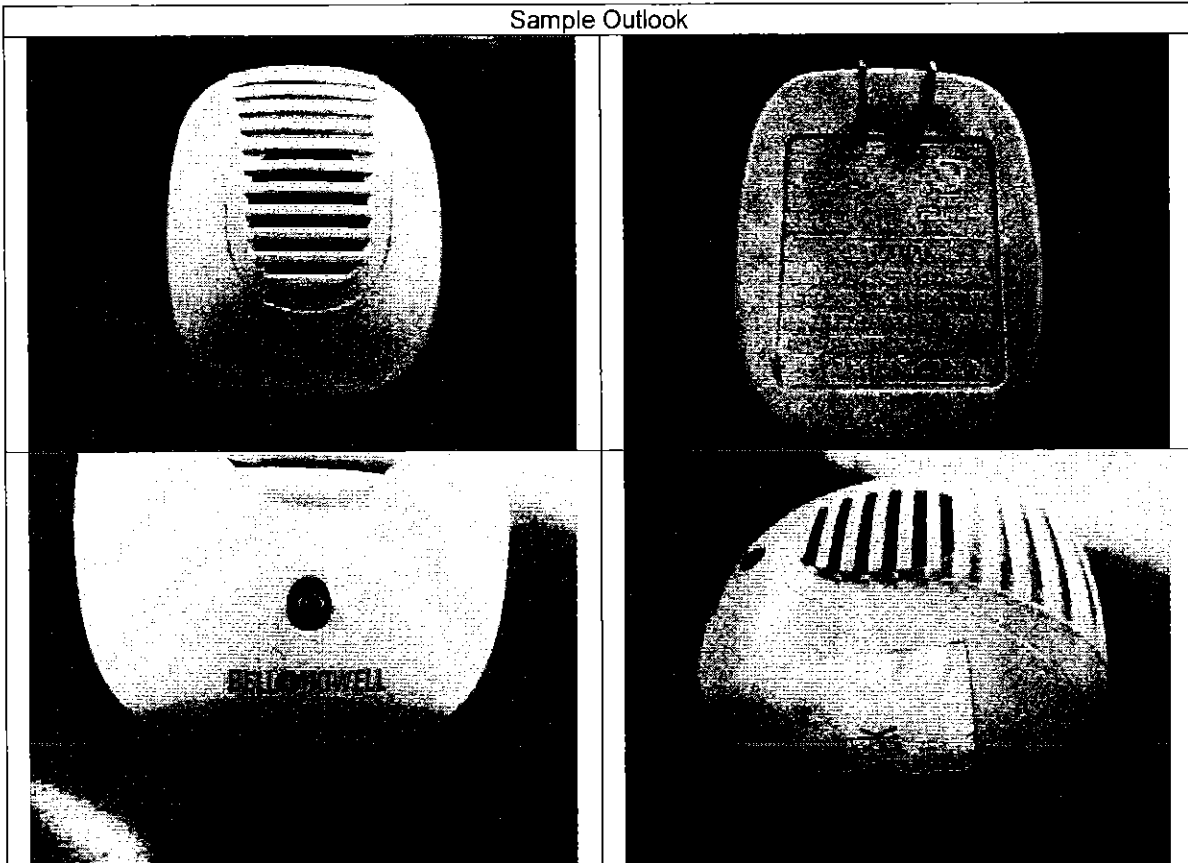
INTELLITEC  
INTERNATIONAL  
INC.

160419051GZU-002

**SAMPLE INFORMATION**

One BELL + HOWELL Ultrasonic Pest Repeller were received in good condition and could work normally.

Sample Outlook



\*\*\*\*\* End of Page \*\*\*\*\*



INTELLITEC  
INTERNATIONAL  
INC.

160419051GZU-002

### **TEST OBJECT**

Testing Ultrasonic Pest Repeller against Ants, Spiders and Roaches in laboratory environment, conducting observations in total 11 days period, including 2 days Preliminary test, 7 days During test and 2 days Post test. This is to measure the efficacy of high-frequency sound as a pest management tool. Both frequency and sound pressure (db) are important parameters.

### **TEST CONDITION**

The test samples were stored in a locked cabinet at ambient temperature and humidity until use in testing. And during testing test chambers were stored at ambient temperature and humidity.

### **TEST PROCEDURE**

#### **2016- Prepare test chambers, test pests and food/water**

Test chambers consisted of two plastic chambers, chamber A (with ultrasonic pest repeller) and Chamber B (no ultrasonic pest repeller), each chamber is 4 feet (L) x 4 feet (W) x 1.5 feet (H). There is an 10 feet long plastic tunnel to connect the two chambers. See appendix III for reference.

Test chambers were sealed by Intertek sealed label. After daily check, replace with new sealed label.

Test pests consisted of 20 ants, 20 spiders and 20 roaches. All of them were adult and healthy.

Placed an equal amount of water in chamber A and chamber B. Socked sponges in the water, this helps test pests drinking water easier. 100 g water was prepared in each chamber daily during the test.

#### **2. Preliminary Testing**

Test pests' activity was documented before and after device installation. To observe general activity, a Preliminary Testing was conducted before the actual test to ensure the test apparatus and the selected food functioned properly. The Ultrasonic Pest Repeller was turned OFF during preliminary testing. The release of test pests in Chamber A and Chamber B will be proportionate, with 50% of Ants, Spiders and Roaches distributed evenly in each chamber. The test pests were given 2 days (48 hours) to move freely around chamber A, Chamber B and the tunnel prior to the introduction of the Ultrasonic Pest Repeller.

The fecal pellet counts & Urine spots were cleaned daily (24 hours).

\*\*\*\*\* End of Page \*\*\*\*\*





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**TEST PROCEDURE (continued)**

**3. Observation of Repellency (During Testing)**

Turn On Ultrasonic Pest Repeller. Test pests were recorded at a 24 hours intervals for 7 days (or 168 hours). Any test pests that stay in the Chamber B (without ultrasonic pest repeller) and tunnel were counted as repelled. Any test pests stay in Chamber A (with ultrasonic pest repeller) were counted as not repelled. The test pests were given 7 days (168 hours) to move freely around Chamber A and Chamber B and the tunnel when the Ultrasonic Pest Repeller is ON.

The fecal pellet counts & Urine spots were cleaned daily (24 hours).

**4. Post Testing**

To observe general activity, a post testing was conducted to ensure the test apparatus and the selected food functioned properly. Ultrasonic Pest Repeller was turned OFF during post testing. The test pests were given 2 days (48 hours) to move freely around chamber A, Chamber B and the tunnel.

The fecal pellet counts & Urine spots were cleaned daily (24 hours).

\*\*\*\*\* End of Page \*\*\*\*\*



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### 5. Daily testing record

Observe Date	8-April-16	9-April-16	10-April-16	11-April-16	12-April-16	13-April-16	14-April-16	15-April-16	16-April-16	17-April-16	18-April-16
Arrived Time(approximate)	10:30AM	10:20AM	10:20AM	10:20AM	10:20AM	10:20AM	10:30AM	10:30AM	10:20AM	10:20AM	10:30AM
Check Intertek seal label (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Record the quantity of spider, ants and roaches in each chamber (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Record the fecal pellet counts & Urine spots in each chamber (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Record the consumption of food and water in each chamber (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Clean the fecal pellet counts & Urine spots by applicant (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Record the weight of new food and water (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Use new Intertek seal label to seal chambers (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
During the period of Intertek technician observation the applicant use multiple cameras to record the status of chambers (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spiders, ants and roaches were suffering physical injury (Yes/No)	No	No	No	No	No	No	No	No	No	No	No
Finished time (approximate)	12:00AM	12:10AM	12:10AM	12:00AM	12:10AM	12:10AM	12:10AM	12:00AM	12:10AM	12:10AM	12:10AM

Remark: On April 7, Intertek technician arrived test location to witness the preparation of testing by Applicant.

\*\*\*\*\* End of Page \*\*\*\*\*

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Intertek Testing Services Shenzhen Ltd. Guangzhou Branch  
Room 02, 1-8/F & Room 01, E101/E501/E601/E701/E801 No.7-2, Guang Dong Software Science Park, Calpin Road, Guangzhou  
Science City, GETDD Guangzhou Tel: (86-20) 8213 9688 Fax: (86-20) 3205 7538  
Website: www.intertek-etlsemko.com GZPERF-BRAND V0 (August 16, 2012)



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# TEST RESULT

Spider/Roaches/Ants		PRELIMINARY TESTING		DURING TESTING										POST TESTING	
		SWITCH OFF		SWITCH ON										SWITCH OFF	
		-48Hrs	-24Hrs	24Hrs	48Hrs	72Hrs	96Hrs	120Hrs	144Hrs	168Hrs	+24Hrs	+48Hrs			
Observe Date		(-2 Day)	(-1 Day)	(1 Day)	(2 Day)	(3 Day)	(4 Day)	(5 Day)	(6 Day)	(7 Day)	(+1 Day)	(+2 Day)			
8-April-16		9-April-16	10-April-16	11-April-16	12-April-16	13-April-16	14-April-16	15-April-16	16-April-16	17-April-16	18-April-16				
11:00AM		11:00AM	11:00AM	11:00AM	11:00AM	11:00AM	11:00AM	11:00AM	11:00AM	11:00AM	11:00AM				
Chamber A (W/Pest Repeller)	Observe Time	Spider	9	8	8	6	6	2	3	2	2	7	8		
		Ants	8	9	7	6	6	5	5	6	6	6	9		
	Roaches	8	9	9	5	3	4	3	5	4	7	8			
	Consumed water(ml)	4.5	5.5	8	6.5	3.5	3	3	2.5	2.5	3.5	5.5			
Chamber B	Observe Time	Spider	10	12	12	14	14	16	15	15	18	13	12		
		Ants	10	11	13	14	14	14	11	14	14	14	11		
	Roaches	9	9	11	15	14	12	12	15	16	13	12			
	Consumed water(ml)	4.5	7	8.5	5.5	6	7.5	7.5	6	7.5	3.5	6.5			
Quantity of lost	Spider	1	NA	NA	NA	NA	2	2	3	NA	NA	NA			
	Ants	2	NA	NA	NA	NA	1	4	NA	NA	NA	NA			
	Roaches	3	2	NA	NA	3	4	5	NA	NA	NA	NA			

Remark: The quantity of tunnel was counted as chamber B. Added new spider, ants and roaches according to the quantity of lost the next day.

\*\*\*\*\* End of Page \*\*\*\*\*

Page 6 of 12

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch  
Room 02, 1-8/F & Room 01, E101/E501/E601/E701/E801 No. 7-2, Guang Dong Software Science Park, Caipin Road, Guangzhou  
Science City, GETDD Guangzhou Tel: (86-20) 8213 9688 Fax: (86-20) 3205 7538  
Website: www.intertek-etisamko.com GZPERF-BRAND V0 (August 16, 2012)





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### TEST RESULT (Continued)

For Roaches fecal pellet & urine spots

STAGE/ SWITCH ON/OFF		DATE	SUBJECT	CHAMBER A (W/ PEST PELLER )	CHAMBER B
PRELIMINARY TESTING	SWITCH OFF	8-April-16	ROACHES	Equal	Equal
		9-April-16	ROACHES	Equal	Equal
DURING TESTING	SWITCH ON	10-April-16	ROACHES	Equal	Equal
		11-April-16	ROACHES	Little	More
		12-April-16	ROACHES	Little	More
		13-April-16	ROACHES	Little	More
		14-April-16	ROACHES	Little	More
		15-April-16	ROACHES	Little	More
		16-April-16	ROACHES	Little	More
POST TESTING	SWITCH OFF	17-April-16	ROACHES	Equal	Equal
		18-April-16	ROACHES	Equal	Equal

Note:

Fecal pellet and urine are observed and witnessed by naked eye. Due to tiny and irregular sizes, Ants, Spiders and Roaches' fecal pellet & urine spots are not easy to count, therefore quantity difference is described by three levels-little, very little and more.

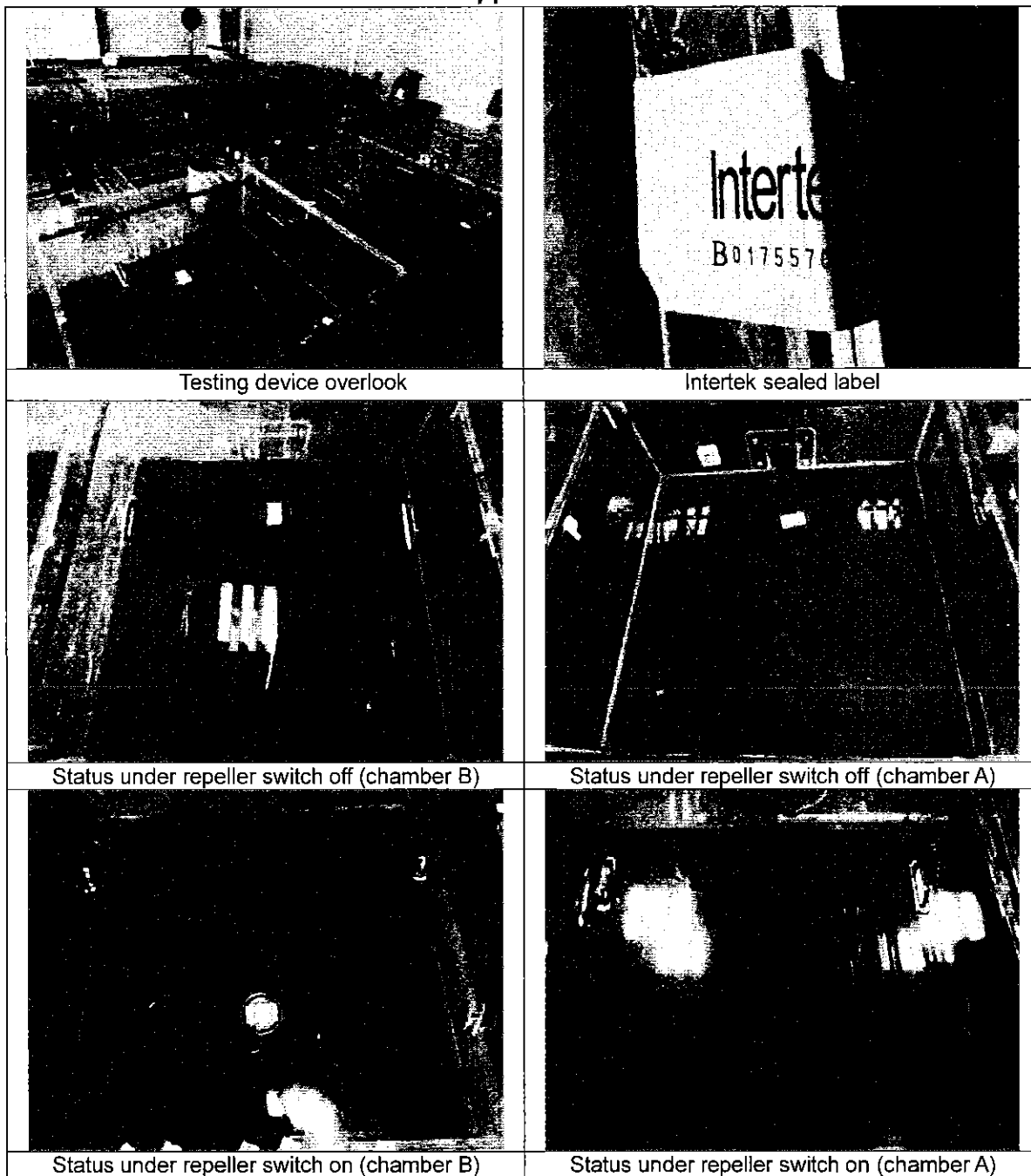
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**Appendix I**



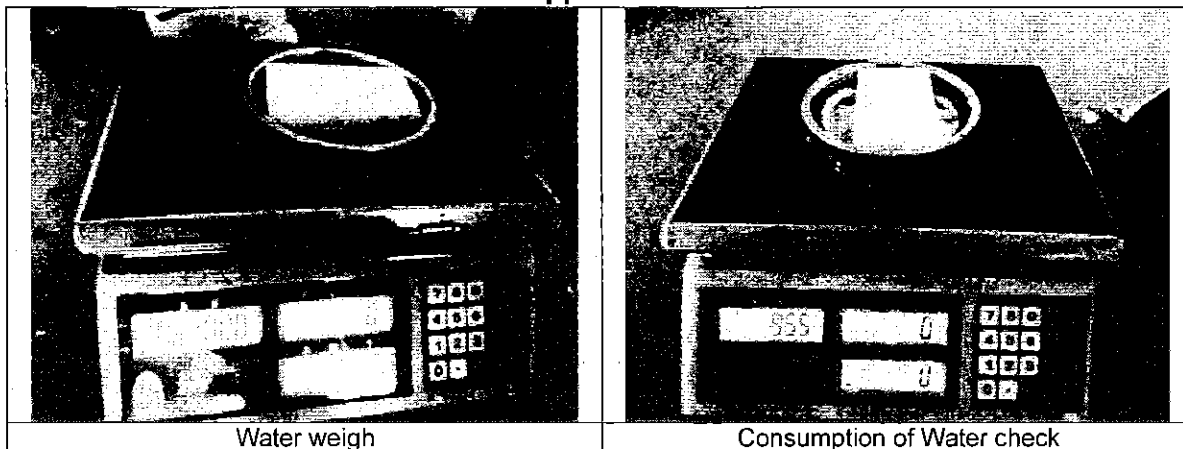
\*\*\*\*\* End of Page \*\*\*\*\*

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**Appendix II**



\*\*\*\*\* End of Page \*\*\*\*\*

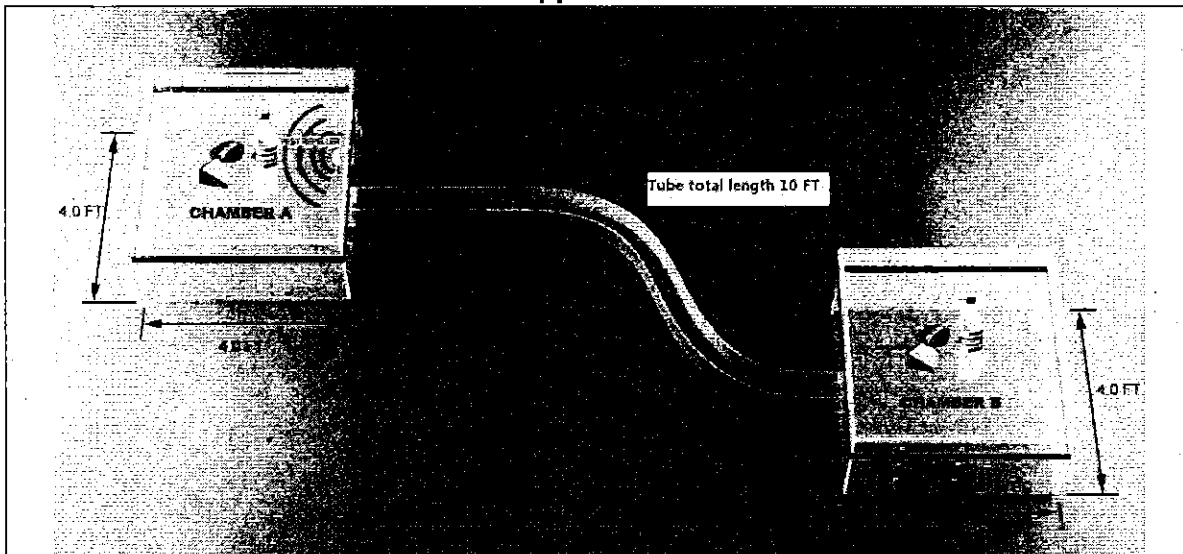


**Intertek**

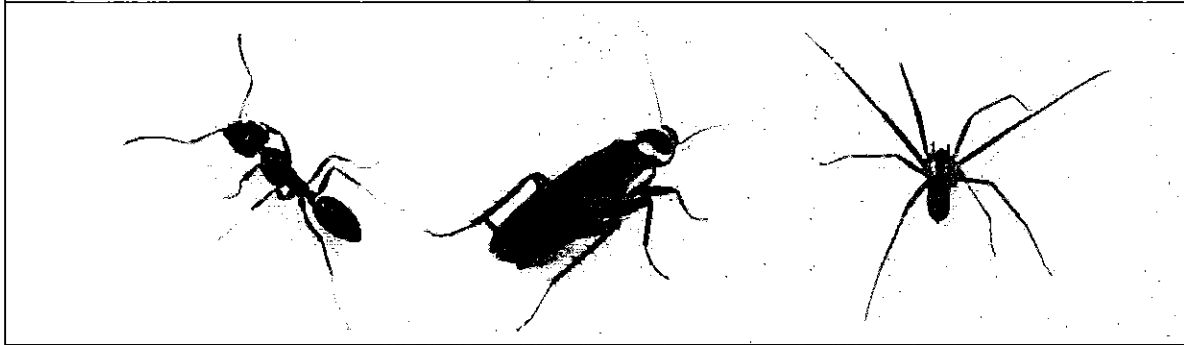
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**Appendix III**



Testing device dimension



Ants /roaches/spiders

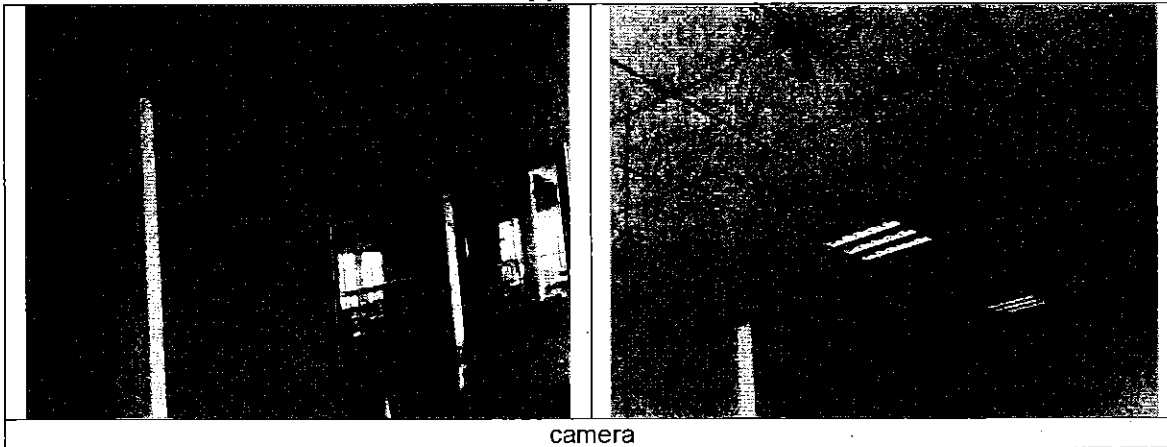
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**Appendix IV**



Remark: Pictures showing multiple video cameras set up at the venue by the applicant. The cameras were used for record the pest activities of all chambers. Each camera targeted at specific chamber.

\*\*\*\*\* End of Page \*\*\*\*\*



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**REVISION SUMMARY**

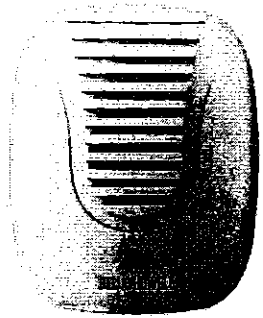
Date	Project Handler Reviewer	Page	Description of Change
2016-4-20			Initial release
2016-5-26	<i>Cao Lin</i>	1	Deleted Style number.

\*\*\*\*\*  
\*\*\*\*\* End of Report \*\*\*\*\*



# INTERTEK 2016 RATS / MICE TEST REPORT ANALYSIS

May 25, 2016

REPORT NO.	160419051GZU-001	 <p style="text-align: center;">Pest Repeller</p>
LABORATORY	INTERTEK	
TESTING PERIOD	APRIL 7 ~ APRIL 18, 2016	
PRODUCT	ULTRASONIC PEST REPELLER	
PEST	MICE / RATS	

## CONSTRUCTION OF TESTING CHAMBER

- The test was conducted in two completely separate sealed plastic chambers. Each chamber is 4' x 4' x 1.5'.
- Pest Repeller was placed in chamber A.
- In between, there is a 7 feet long plastic tunnel. The tunnel is "curved", two chambers are designed in HI-LO levels. The curved and Hi-Lo tunnel design is to further ensure ultrasonic sound wave will not enter from chamber A into chamber B since sound wave is very directional.
- All edges/gaps are sealed securely with SGS unbreakable labels. Only SGS inspectors were allowed to open the chambers to count mice/rats quantities, weighted food and water, and replaced new seals after counting on a daily basis.
- 20 healthy adult Mice and 20 healthy adult Rats were used for this testing.
- Released 50% mice/rats into chamber A and another 50% in Chamber B at the beginning of the test.
- There were 3 testing stages;
  - Preliminary Testing: 2 days = 48 hours, pest repeller was switched OFF
  - During Testing: 7 days = 168 hours, pest repeller was switched ON
  - Post Testing: 2 days = 48 hours, pest repeller was switched OFF

## VIDEO RECORDING

- See page 5 "" During the period of Intertek technician observation, the applicant use multiple cameras to record the status of chambers"".
- See page 14 "" pictures showing multiple video cameras set up at the venue by the applicant. The cameras were used for recording the pest activities of all chamber. Each camera targeted at specific chamber.

**TEST RESULTS****RATS (PAGE 6)**

- During Testing showed Rats gradually moved from Chamber A (where pest repeller was working) to Chamber B.

PRE-TESTING		DURING TESTING							POST TESTING	
Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11
37%	33%	24%	20%	22%	0%	0%	5%	5%	0%	30%

- Food consumption was noticeably much LESS in Chamber A During Testing period when pest repeller was working.

DURING TESTING						
Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9
8%	-20%	-13%	-72%	-83%	-86%	-70%

- Water consumption was noticeably much LESS in Chamber A During Testing period when pest repeller was working.

DURING TESTING						
Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9
+22%	-36%	-3%	-90 %	-72%	-86%	-84%

**Mice (Page 7)**

- During Testing showed Mice gradually moved from Chamber A (where pest repeller was working) to Chamber B.

PRE-TESTING		DURING TESTING							POST TESTING	
Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11
37%	27%	37%	36%	40%	30%	21%	11%	0%	35%	15%

- Food consumption was noticeably much LESS in Chamber A During Testing period when pest repeller was working.

DURING TESTING						
Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9
6%	-21%	-43%	-70%	-73%	-72%	-77%

- Water consumption was noticeably much LESS in Chamber A During Testing period when pest repeller was working.

DURING TESTING						
Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9
-16%	+36%	-30%	-84%	-78%	-72%	-83%

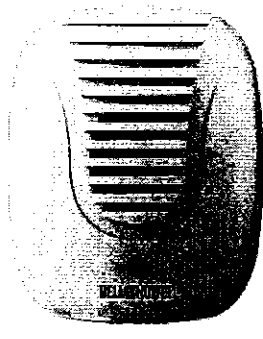
**URINE SPOTS / FECAL PELLETS COUNT (PAGE 8)**

- Lab technician traced and recorded rats/mice urine spots and fecal pellets on a daily basis, this helped to further understand pest's activities and behaviors under the influence of ultrasonic sound.
- When pest repeller was switched on During Testing, urine spots and fecal pellets appeared to be noticeably much LESS quantities in Chamber A.
- When pest repeller was switched off during Preliminary and Post testing periods, urine spots and fecal pellet quantities appeared to be more EVEN in two chambers.



## INTERTEK 2016 ANTS / SPIDERS / ROACHES TEST REPORT ANALYSIS

May 25, 2016

Report No.	160419051GZU-002	 <p style="text-align: center;">Pest Repeller</p>
Laboratory	INTERTEK	
Testing Period	April 7 ~ April 18, 2016	
Product	Ultrasonic Pest Repeller	
Pest	Ants / Spiders / Roaches	

### CONSTRUCTION OF TESTING CHAMBER

- The test was conducted in two completely separate sealed plastic chambers. Each chamber is 4' x 4' x 1.5'.
- Pest Repeller was placed in chamber A.
- In between chambers, there is a 7 feet long plastic tunnel. The tunnel is "curved", two chambers are designed in HI-LO levels. The curved and Hi-Lo tunnel design is to further ensure ultrasonic sound wave will not enter from chamber A into chamber B since sound wave is very directional.
- All edges/gaps are sealed securely with SGS unbreakable labels. Only SGS inspectors were allowed to open the chambers to count mice/rats quantities, weighted food and water, and replaced new seals after counting on a daily basis.
- 20 each healthy adult Ants / Spiders / Roaches were used for this testing.
- Released 50% mice/rats into chamber A and another 50% in Chamber B at the beginning of the test.
- There were 3 testing stages;
  - Preliminary Testing: 2 days = 48 hours, pest repeller was switched OFF
  - During Testing: 7 days = 168 hours, pest repeller was switched ON
  - Post Testing: 2 days = 48 hours, pest repeller was switched OFF

### VIDEO RECORDING

- See page 5 ""During the period of Intertek technician observation the applicant use multiple cameras to record the status of chambers"".
- See Page 11 ""Picture showing multiple video cameras set up at the venue. Declared by client, each camera targeted at specific chamber, pest activities of all chambers have been recorded without interruption during 11 days of testing""

**TEST RESULTS****ANTS (PAGE 6)**

- During Testing result showed Ants gradually moved from Chamber A (where pest repeller was working) to Chamber B. After testing, Ants still had memories/habits to stay away from Chamber A where Pest Repeller was working before.

PRE-TESTING		DURING TESTING							POST TESTING	
Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11
44%	45%	35%	30%	30%	26%	31%	30%	30%	30%	45%

- Water consumption was noticeably much LESS in Chamber A During Testing when pest repeller was working.

DURING TESTING						
Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9
-6%	+18%	-41%	-60%	-60%	-58%	-67%

**SPIDERS (PAGE 6)**

- During Testing result showed Spiders gradually moved from Chamber A (where pest repeller was working) to Chamber B. After testing, Spiders had memories/habits to stay away from Chamber A where Pest Repeller was working before.

PRE-TESTING		DURING TESTING							POST TESTING	
Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11
47%	40%	40%	30%	30%	11%	17%	11%	10%	35%	40%

- Water consumption was noticeably much LESS in Chamber A During Testing period when pest repeller was working.

DURING TESTING						
Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9
-6%	+18%	-41%	-60%	-60%	-58%	-67%

**ROACHES (PAGE 6)**

- During Testing result showed Roaches gradually moved from Chamber A (where pest repeller was working) to Chamber B. After testing, Roaches had memories/habits to stay away from Chamber A where Pest Repeller was working before.

PRE-TESTING		DURING TESTING							POST TESTING	
Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11
47%	50%	45%	25%	18%	25%	20%	25%	20%	35%	40%

- Water consumption was noticeably much LESS in Chamber A During Testing period when pest repeller was working.

DURING TESTING						
Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9
-6%	+18%	-41%	-60%	-60%	-58%	-67%

#### URINE SPOTS / FECAL PELLETS COUNT (PAGE7)

- Lab technician traced and recorded ants / spiders / roaches urine spots and fecal pellets on a daily basis, this helped to further understand pest's activities and behaviors under the influence of ultrasonic sound.
- When pest repeller was switched on During Testing, urine spots and fecal pellets appeared to be much LESS quantities in Chamber A.
- When pest repeller was switched off during Preliminary and Post testing periods, urine spots and fecal pellet quantities appeared to be more EVEN in two chambers.





## **TEST REPORT**

**Report Number: 160419051GZU-001**

**Issued Date: May 26, 2016**

**Applicant** : INTELLITEC INTERNATIONAL INC.  
**Address** : Unit 201 Yuekai Commercial Building, NO28, Dongyuan Road, Changping Town, Dongguan  
**Manufacturer** : INTELLITEC INTERNATIONAL INC.  
**Address** : Unit 201 Yuekai Commercial Building, NO28, Dongyuan Road, Changping Town, Dongguan

### **Specimen Description**

**Product** : BELL + HOWELL Ultrasonic Pest Repeller  
**Sample Received Date** : Provided by applicant on April 7, 2016  
**Quantity of Sample** : 2 pieces.

### **Test Content**

**Date Test Conducted** : From April 7, 2016 to April 18, 2016  
**Test Requested** : Witness for performance testing – Rats and Mice  
**Test Standard/Method** : According to client's requirements.  
**Test Location** : Dongguan, Guangdong, China

**Test Results** : See the following pages for details.

*Remark: When determining the test conclusion, the Measurement Uncertainty of test has been considered.*

Prepared by:

Reviewed by:

A handwritten signature in black ink that reads "Leo Lin".

Leo Lin  
Engineer

A handwritten signature in black ink that reads "Sam Lin".

Sam Lin  
Supervisor

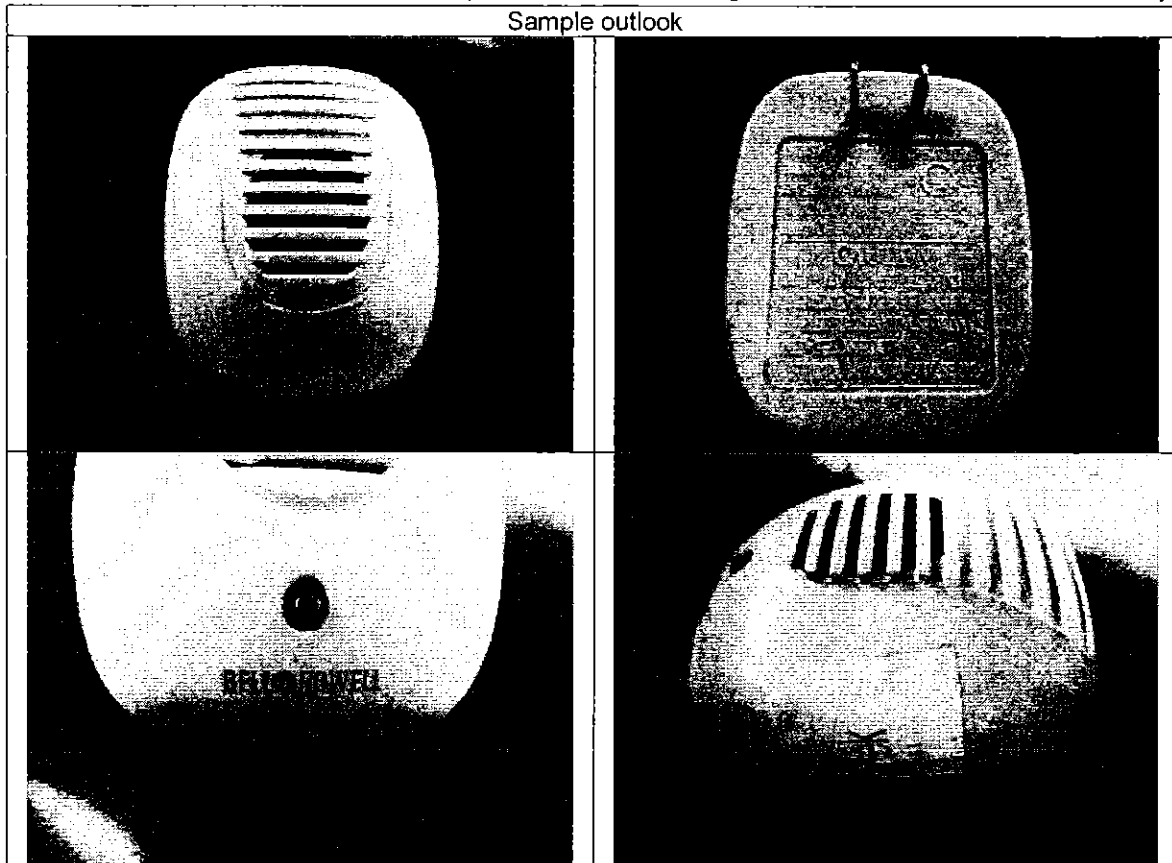


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160419051GZU-001

**SAMPLE INFORMATION**

Two BELL + HOWELL Ultrasonic Pest Repeller were received in good condition and could work normally.



\*\*\*\*\* End of Page \*\*\*\*\*



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160419051GZU-001

### **TEST OBJECT**

Test Ultrasonic Pest Repeller against rats and mice in laboratory environment, conducting observations in total 11 days period, including 2 days Preliminary test, 7 days During test and 2 days Post test. This is to measure the efficacy of high-frequency sound as a pest management tool.  
Both frequency and sound pressure (db) are important parameters.

### **TEST CONDITION**

The test samples were stored in a locked cabinet at ambient temperature and humidity until use in testing. And during testing test chambers were stored at ambient temperature and humidity.

### **TEST PROCEDURE**

#### **1. Prepare test Chamber, rats/mice and food/water**

Test chambers of rat and mice consisted of two plastic chambers, chamber A (with ultrasonic pest repeller) and Chamber B (no ultrasonic pest repeller), each chamber is 4 feet (L) x 4 feet (W) x 1.5 feet (H). There is a 10 feet long plastic tunnel to connect these two chambers. See appendix III for reference.  
Test chambers were sealed by Intertek sealed label. After daily check, replace with new sealed label.

The number of rats and mice is 20 or more. All of them were adult and healthy. The testing of rats and mice was conducted separately.

Placed an equal amount of food and water in chamber A and chamber B. Used rice as food for rats and mice and used tap water. During first three days, 200g food and 300g water for rats and mice, other days, 300g food and 300g water for rats and mice were prepared in each chamber daily.

#### **2. Preliminary Testing**

Rats and mice's activity was documented before and after device installation. To observe general activity, conducted a Preliminary Testing before the actual test to ensure the test apparatus and the selected food functioned properly. The Ultrasonic Pest Repeller was turned OFF during preliminary testing. The release of rats and mice in Chamber A and Chamber B was proportionate, with 50% of rats and mice distributed evenly in each chamber. Rats and mice were given 2 days (48 hours) to move freely around chamber A, Chamber B and the tunnel prior to the introduction of the Ultrasonic Pest Repeller.

The fecal pellet counts & Urine spots were cleaned daily (24 hours).

\*\*\*\*\* End of Page \*\*\*\*\*





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160419051GZU-001

**TEST PROCEDURE (continued)**

**3. Observation of Repellency (During Testing)**

Turn On Ultrasonic Pest Repeller. Rats and mice were recorded at 24 hour intervals for 7 days (or 168 hours). Any rats and mice that stay in the Chamber B (without ultrasonic pest repeller) and tunnel were counted as repelled. Any rats and mice stay in Chamber A (with ultrasonic pest repeller) were counted as not repelled. Rats and mice were given 7 days (168 hours) to move freely around Chamber A and Chamber B and the tunnel when the Ultrasonic Pest Repeller is ON.

The fecal pellet counts & Urine spots were cleaned daily (24 hours).

**4. Post Testing**

To observe general activity, a post testing was conducted to ensure the test apparatus and the selected food functioned properly. Ultrasonic Pest Repeller was turned OFF during post testing. Rats and mice were given 2 days (48 hours) to move freely around chamber A, Chamber B and the tunnel.

The fecal pellet counts & Urine spots were cleaned daily (24 hours).

\*\*\*\*\* End of Page \*\*\*\*\*



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INTERNATIONAL INC.

160419051GZU-001

### 5. Daily testing record

Observe Date	8-April-16	9-April-16	10-April-16	11-April-16	12-April-16	13-April-16	14-April-16	15-April-16	16-April-16	17-April-16	18-April-16
Arrived Time(approximate)	10:30AM	10:20AM	10:20AM	10:20AM	10:20AM	10:20AM	10:30AM	10:30AM	10:20AM	10:20AM	10:30AM
Check Intertek seal label (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Record the quantity of rats/mice in each chamber (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Record the fecal pellet counts & Urine spots in each chamber (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Record the consumption of food and water in each chamber (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Clean the fecal pellet counts & Urine spots by applicant (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Record the weight of new food and water (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Use new Intertek seal label to seal chambers (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
During the period of Intertek technician observation the applicant use multiple cameras to record the status of chambers (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rats/mice were suffering physical injury (Yes/No)	No	No	No	No	No	No	No	No	No	No	No
Finished time (approximate)	11:30AM	11:40AM	11:40AM	11:30AM	11:30AM	11:40AM	11:40AM	11:30AM	11:30AM	11:40AM	11:40AM

Remark: On April 7, Intertek technician arrived test location to witness the preparation of testing by Applicant.

\*\*\*\*\* End of Page \*\*\*\*\*

Page 5 of 15

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch  
Room 02, 1-8/F & Room 01, E101/E501/E601/E701/E801 No.7-2, Guang Dong Software Science Park, Caipin Road, Guangzhou  
Science City, GETDD Guangzhou Tel: (86-20) 8213 9688 Fax: (86-20) 3205 7538  
Website: www.intertek-el.com GZPERF-BRAND V0 (August 16, 2012)



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# TEST RESULT

RATS			PRELIMINARY TESTING		DURING TESTING										POST TESTING	
			SWITCH OFF		SWITCH ON										SWITCH OFF	
			-48Hrs	-24Hrs	24Hrs	48Hrs	72Hrs	96Hrs	120Hrs	144Hrs	168Hrs	+24Hrs	+48Hrs			
			(-2 Day)	(-1 Day)	(1 Day)	(2 Day)	(3 Day)	(4 Day)	(5 Day)	(6 Day)	(7 Day)	(+1 Day)	(+2 Day)			
Observe Date			8-April-16	9-April-16	10-April-16	11-April-16	12-April-16	13-April-16	14-April-16	15-April-16	16-April-16	17-April-16	18-April-16			
Observe Time			10:30AM	10:30AM	10:30AM	10:30AM	10:30AM	10:30AM	10:30AM	10:30AM	10:30AM	10:30AM	10:30AM			
Chamber A (W/Pest Repeller)	Quantity	9	7	5	4	4	0	0	1	1	0	0	6			
	Consumed food(g)	131	120	150	144.5	173.5	53.5	35.5	35	67.5	116	119.5				
	Consumed water(ml)	257	214.5	183	116	137.5	25	46	29.5	46	161	181				
Chamber B	Quantity	15	14	16	16	14	16	20	19	19	20	14				
	Consumed food(g)	160.5	114	139.5	182	200	197.5	212	262	231	266.5	261				
	Consumed water(ml)	270.5	228	150	182	142	252.5	166	213	291	187	206				
Quantity of dead & add	Dead	NA	3	NA	1	2	2	1	NA	NA	NA	NA				
	Add	NA	NA	NA	NA	NA	4	1	NA	NA	NA	NA				

Remark: The quantity of tunnel was counted as chamber B.

\*\*\*\*\* End of Page \*\*\*\*\*

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Intertek Testing Services Shenzhen Ltd. Guangzhou Branch  
Room 02, 1-8/F & Room 01, E101/E501/E801/E801 No.7-2, Guang Dong Software Science Park, Caipin Road, Guangzhou  
Science City, GETDD Guangzhou Tel: (86-20) 8213 9688 Fax: (86-20) 3205 7538  
Website: www.intertek-etlsonko.com GZPERF-BRAND V0 (August 16, 2012)



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**TEST RESULT (Continued)**

MICE			PRELIMINARY TESTING		DURING TESTING										POST TESTING	
			SWITCH OFF		SWITCH ON										SWITCH OFF	
			-48Hrs	-24Hrs	24Hrs		48Hrs	72Hrs	96Hrs	120Hrs	144Hrs	168Hrs	+24Hrs		+48Hrs	
			(-2 Day)	(-1 Day)	(1 Day)	(2 Day)	(3 Day)	(4 Day)	(5 Day)	(6 Day)	(7 Day)	(+1 Day)	(+2 Day)			
Observe Date			8-April-16	9-April-16	10-April-16	11-April-16	12-April-16	13-April-16	14-April-16	15-April-16	16-April-16	17-April-16	18-April-16			
Observe Time			10:30AM	10:30AM	10:30AM	10:30AM	10:30AM	10:30AM	10:30AM	10:30AM	10:30AM	10:30AM	10:30AM			
Chamber A (W/Pest Repeller)	Quantity		7	5	6	7	8	6	4	2	0	7	3			
	Consumed food(g)		154	178	182.5	196	135.5	60	62.5	60.5	61.5	149.5	157.5			
	Consumed water(ml)		259	210.5	150	199.5	128.5	39.5	43.5	63	46	128	186			
Chamber B	Quantity		12	13	10	12	12	14	15	16	20	13	17			
	Consumed food(g)		118	76.5	173	249	241	203	231.5	221	269.5	169	205			
	Consumed water(ml)		170.5	159.5	179	146.5	184.5	259	200	228	285	169	155			
Quantity of dead & add	Dead		1	1	2	1	NA	NA	1	1	NA	NA	NA			
	Add		NA	NA	4	1	NA	NA	NA	2	NA	NA	NA			

Remark: The quantity of tunnel was counted as chamber B.

\*\*\*\*\* End of Page \*\*\*\*\*

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Intertek Testing Services Shenzhen Ltd. Guangzhou Branch  
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### TEST RESULT (Continued)

For Rats/Mice fecal pellet & urine spots

STAGE/ SWITCH ON/OFF		DATE	SUBJECT	CHAMBER A ( W/ PEST PELLER )	CHAMBER B
PRELIMINARY TESTING	SWITCH OFF	8-April-16	RATS	Equal	Equal
			MICE	Equal	Equal
		9-April-16	RATS	Equal	Equal
			MICE	More	Little
DURING TESTING	SWITCH ON	10-April-16	RATS	Equal	Equal
			MICE	Equal	Equal
		11-April-16	RATS	Equal	Equal
			MICE	Equal	Equal
		12-April-16	RATS	Equal	Equal
			MICE	Little	More
		13-April-16	RATS	Little	More
			MICE	Little	More
		14-April-16	RATS	Little	More
			MICE	Little	More
		15-April-16	RATS	Little	More
			MICE	Little	More
POST TESTING	SWITCH OFF	17-April-16	RATS	Little	More
			MICE	Little	More
		18-April-16	RATS	Equal	Equal
			MICE	Equal	Equal

Note:

Fecal pellet and urine are observed and witnessed by naked eye. Due to tiny and irregular sizes, rats and mice's fecal pellet & urine spots are not easy to count, therefore quantity difference is described by three levels-little, very little and more.

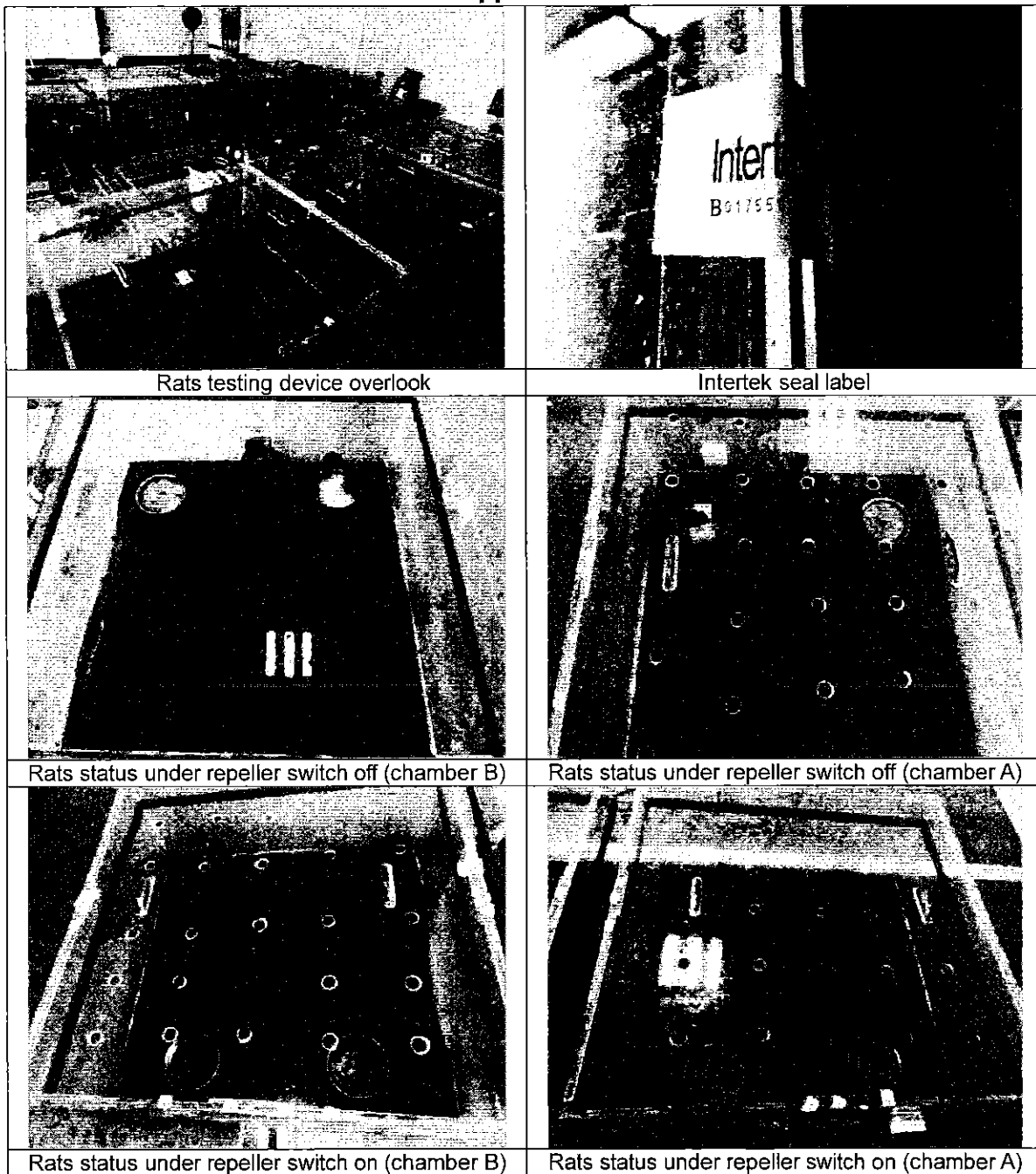
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Appendix I



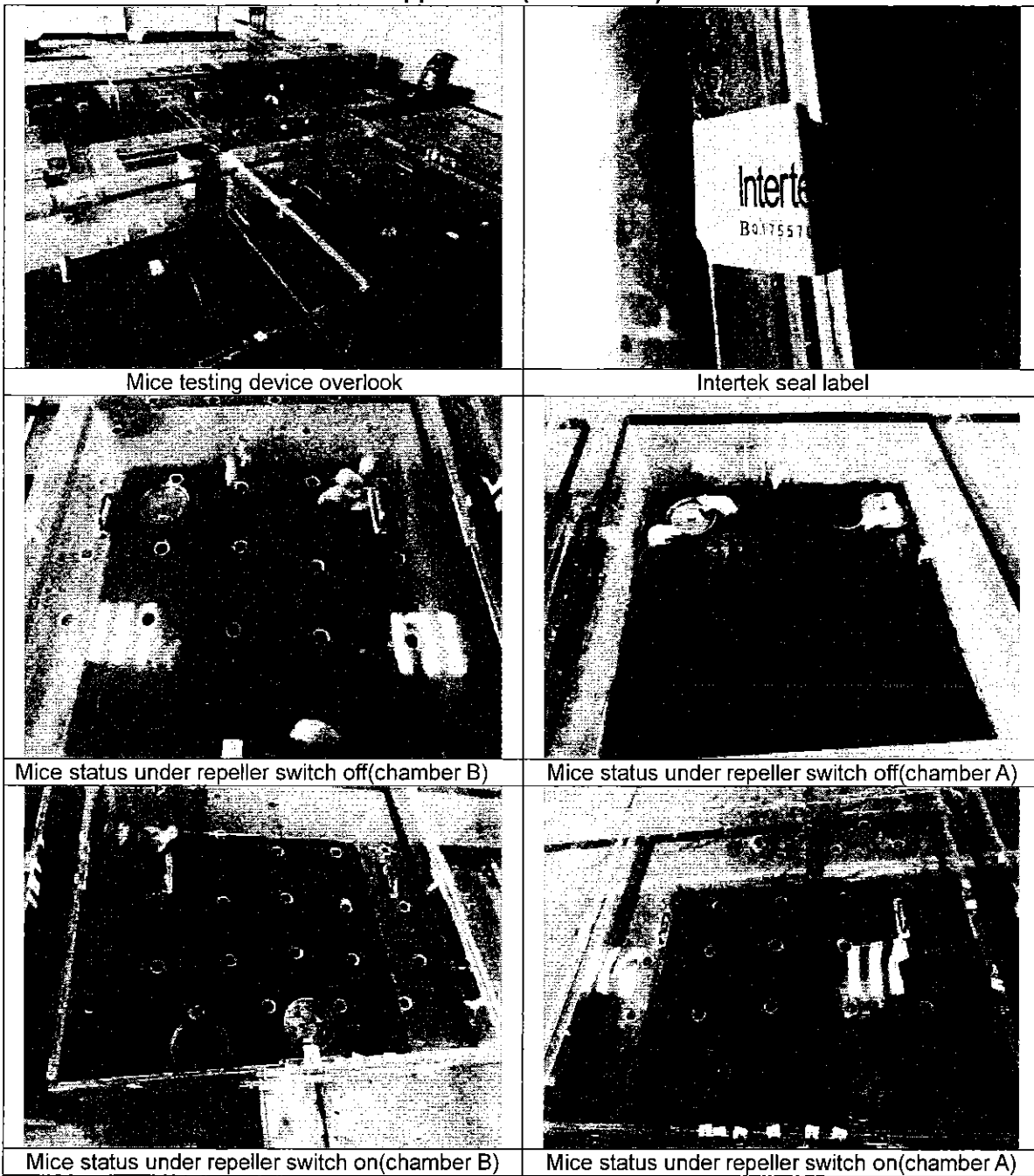
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**Appendix I (Continued)**



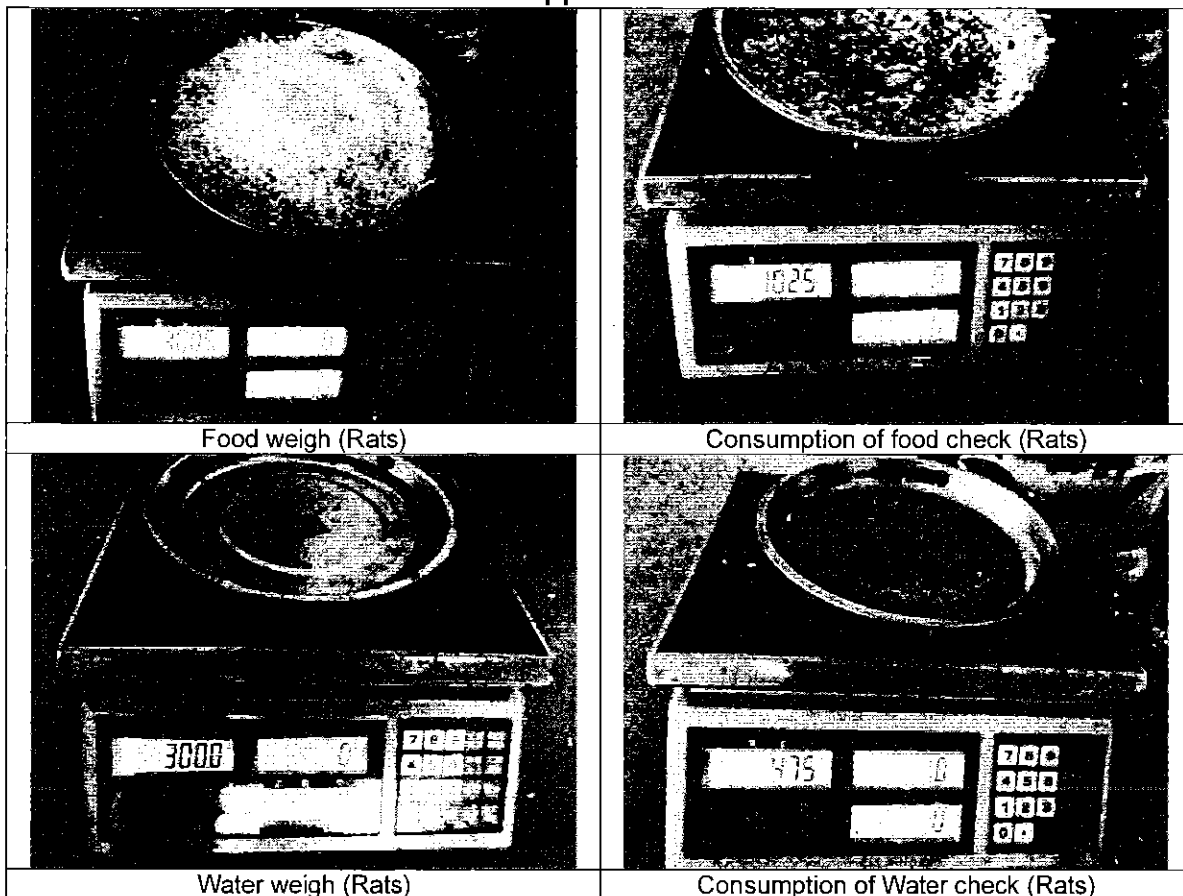
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**Appendix II**



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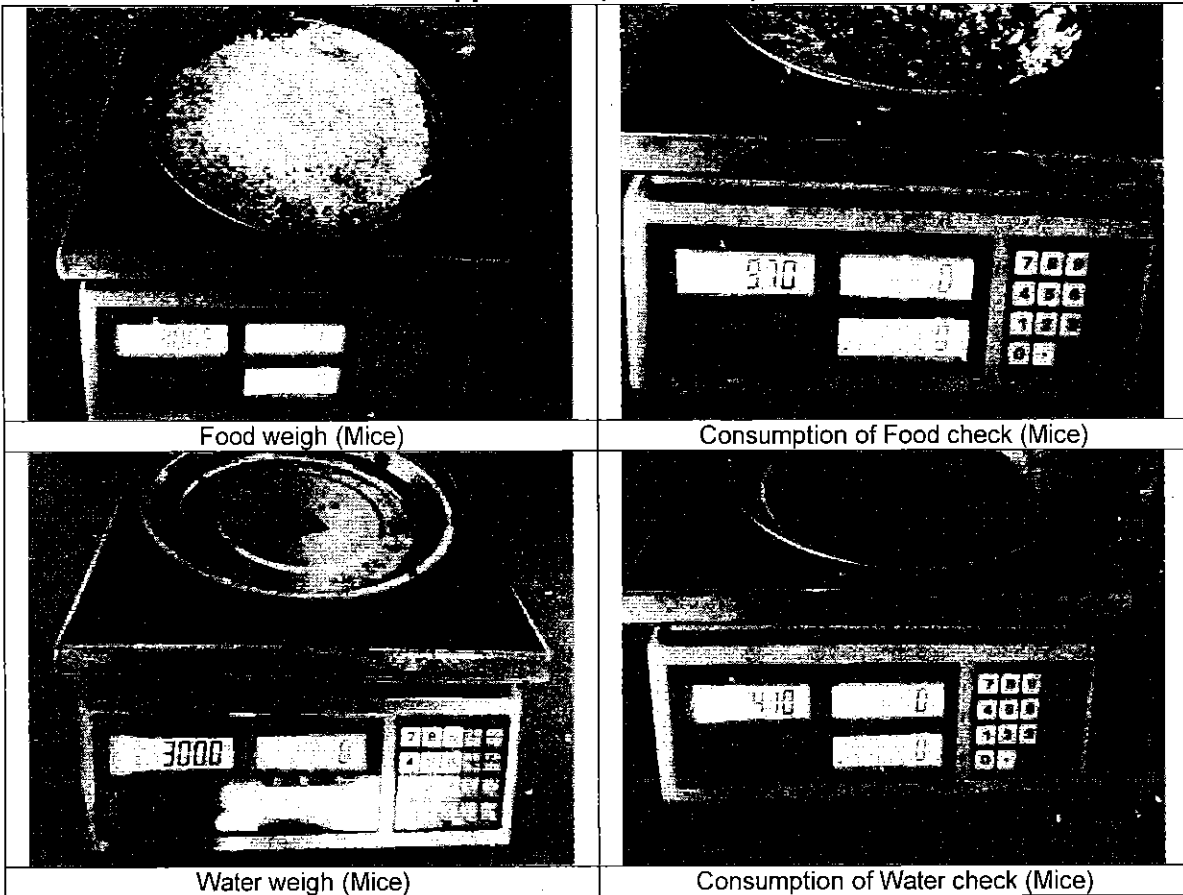


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**Appendix II (Continued)**



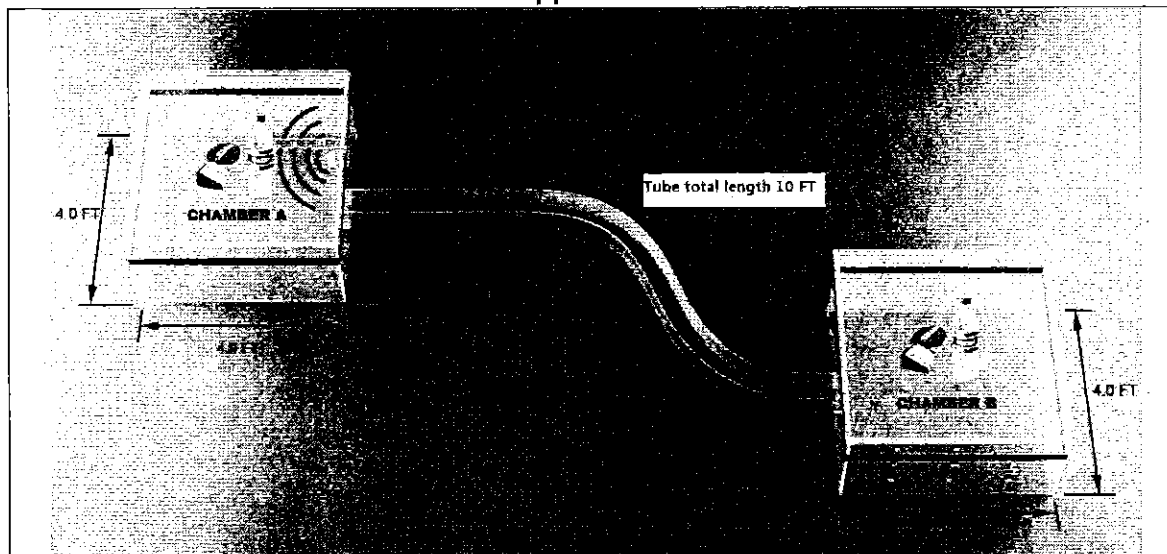
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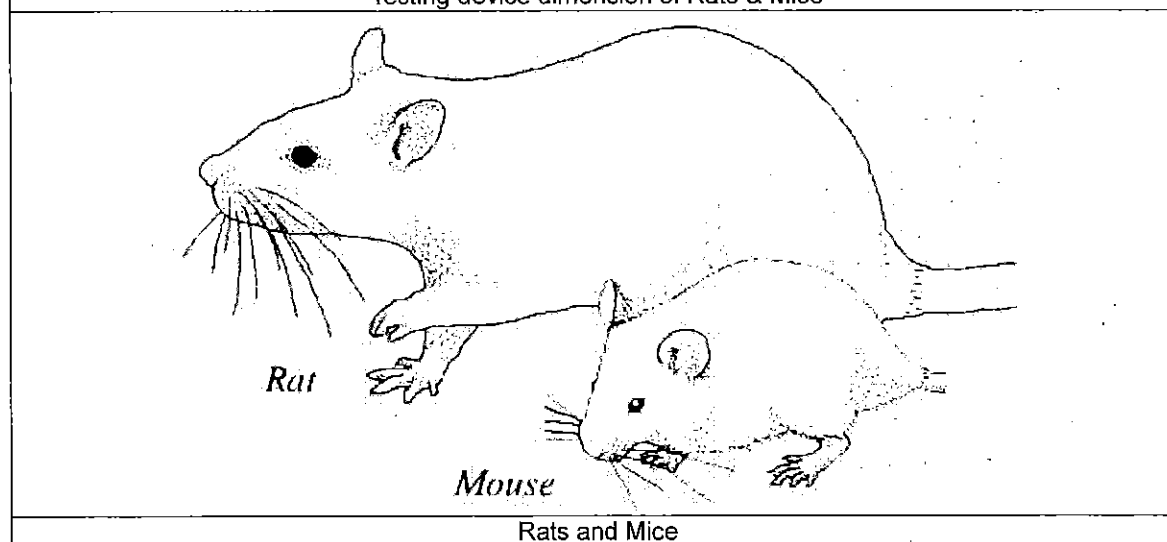
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**Appendix III**



Testing device dimension of Rats & Mice



Rats and Mice

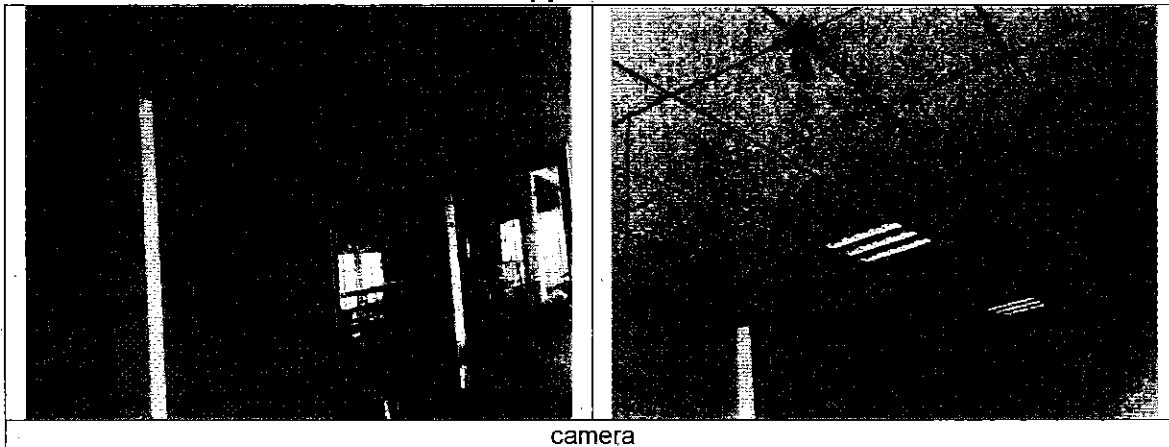
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**Appendix IV**



camera

Remark: Pictures showing multiple video cameras set up at the venue by the applicant. The cameras were used for record the pest activities of all chambers. Each camera targeted at specific chamber.

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**REVISION SUMMARY**

Date	Project Handler Reviewer	Page	Description of Change
2016-4-20			Initial release
2016-5-26	<i>Leo Lin</i>	1	Deleted Style number

\*\*\*\*\* End of Report \*\*\*\*\*